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June 5, 2017

SPACECO, Inc. 9575 W. Higgins Road, Suite 700 Rosemont, IL 60018

Attention: Peter Bator, P.E.

Subject: Wetland/Waters of the U.S. Assessment for the Crawford Site, Chicago, Cook

County, Illinois (CBBEL Project No. 170268)

Dear Mr. Bator:

On May 31, 2017, Christopher B. Burke Engineering, Ltd. (CBBEL) completed a wetland and waters assessment of the property located at the intersection of West 33rd Street and South Pulaski Road, in Chicago, Cook County, Illinois (Exhibit 1). Geographically the study area is located in Section 35, Township 39 North, Range 13 East, of the Third Principal Meridian. The study area is centered near Latitude 41.830182° North, Longitude -87.721523° West.

The Chicago Sanitary and Ship Canal, a navigable waterway, was identified as a waters of the United States along the south study area boundary. In addition, six investigated areas were identified within the study area. The approximate ordinary high water mark (OHWM) of the canal and investigated area boundaries are depicted on the Exhibit 6 aerial photograph.

The attached report describes the Chicago Sanitary and Ship Canal and the six investigated areas and describes the methodology and reference material used to assist in the assessment. Representative site photographs are also included within Exhibit 7. This assessment is based on field conditions at the time of the CBBEL site visit and our understanding of current federal, state and local regulations. An evaluation of historic site conditions was not performed.

The Chicago Sanitary and Ship Canal is regulated by the U.S. Army Corps of Engineers (USACE) as a waters of the U.S. under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. If development were to occur within or adjacent to the Chicago Sanitary and Ship Canal, a Section 10 and/or 404 permit may be required by the USACE.

The six investigated areas consisted of two drainage swales (Investigated Area 1) and five detention basins (Investigated Areas 2-6). These areas are manmade depressions excavated in dry land within non-hydric soils for the purposes of stormwater management, and continue to function in that capacity. In addition, the five detention basins were used

in the past as yard runoff and coal pile settling basins for the now decommissioned coal fired power plant facility (Crawford Generating Station).

In our opinion, Investigated Areas 1 through 6 are manmade features that should be exempt from regulation due to the preamble to 33 Code of Federal Regulations (CFR) Part 328, the U.S. Army Corps of Engineers (Corps) 2015 Final Rule.

Federal Regulations

The preamble to 33 CFR Part 328 states that features excavated from uplands are not considered waters of the United States. For example, a drainage ditch excavated in uplands, and/or located along a roadway, runway, or railroad that only carries water from upland areas, is not considered jurisdictional, even if it supports hydrophytic vegetation. Other common examples of non-jurisdictional areas excavated from uplands include stormwater or other treatment ponds, detention basins, retention ponds, sediment basins, artificial reflecting pools, and golf course ponds.

According to the 2015 Corps Final Rule, issued on June 29, 2015, paragraph (b)(4), the following features are not "waters of the U.S.": artificial, constructed lakes or ponds created by excavating and/or diking dry land such as farm and stock watering ponds, irrigation ponds, settling basins, log cleaning ponds, cooling ponds, or fields flooded for rice growing; and water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.

In our opinion, per the preamble to 33 CFR Part 328 and the 2015 Corps Final Rule, Investigated Areas 1 through 6 are exempt from federal regulation because they are manmade depressions excavated in dry land within non-hydric soils for the purposes of stormwater management, and continue to function in that capacity.

Summary

On the basis of a fact-specific analysis as detailed above, Investigated Areas 1 through 6 are exempt from federal regulation as they are manmade depressions that were excavated out of uplands for the purposes of stormwater management and they continue to function in that capacity. Therefore, these areas should not be considered waters of the U.S. and should not be regulated under Section 404 of the Clean Water Act. We recommend submitting a request for a Jurisdictional Determination to the USACE to confirm our opinion.

Please contact our office should you have any questions.

Sincerely,

Travis D. Kessler, PWS

Senior Environmental Resources Specialist

Cc: Tom Kehoe, CPESC - Senior Environmental Resources Specialist

WETLAND/WATERS ASSESSMENT REPORT SPACECO, INC. – CRAWFORD SITE CHICAGO, COOK COUNTY, ILLINOIS CBBEL Project No. 170268 June 1, 2017

WETLAND ASSESSMENT

As requested, on May 31, 2017, Christopher B. Burke Engineering, Ltd. (CBBEL) completed a wetland/waters assessment of the study area to determine on-site wetland/waters boundaries. The Chicago Sanitary and Ship Canal and six investigated areas were identified at the time of our field investigation using the U.S. Army Corps of Engineers (USACE) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010). An aerial photograph depicting the location of the identified areas is included as Exhibit 6. A series of representative photographs are included as Exhibit 7. Information collected from the field investigation is listed in the data forms.

METHODOLOGY

The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010), identifies the mandatory technical criteria for wetland identification. The three essential characteristics of a jurisdictional wetland are hydrophytic vegetation, hydric soils and wetland hydrology as described below:

<u>Hydrophytic Vegetation</u>: The hydrophytic vegetation criterion is based on a separation of plants into five basic groups:

- (1) Obligate wetland plants (OBL) almost always occur (estimated probability >99%) in wetlands under natural conditions;
- (2) Facultative wetland plants (FACW) usually occur in wetlands (estimated probability 67-99%), but occasionally are found in non-wetlands;
- (3) Facultative plants (FAC) are equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%);
- (4) Facultative upland plants (FACU) usually occur in non-wetlands (estimated probability 67-99%), but occasionally are found in wetlands; and
- (5) Obligate upland plants (UPL) almost always occur (estimated probability >99%) in non-wetlands under natural conditions.

Four procedures completed in the following order are used to determine if hydrophytic vegetation is present:

- 1) Rapid Test: The Rapid Test for hydrophytic vegetation is met if all dominant species across all strata are OBL or FACW, or a combination of the two based on a visual assessment.
- 2) <u>Dominance Test</u>: Using the 50/20 Rule, if greater than 50% of the plants present are FAC, FACW, or OBL, the subject area meets the hydrophytic vegetation criterion.
- 3) <u>Prevalence Index</u>: Each plant species in a sampling plot is assigned a numeric value (OBL=1; FACW=2; FAC=3; FACU=4; UPL=5). Based on the sampling data, the absolute cover is calculated for each species in each stratum and using the specified formula, if the Prevalence Index is 3 or less, hydrophytic vegetation is present.
- 4) Morphological Adaptations: Various species may develop physical characteristics after growing in wetland areas such as multi-stemmed trunks, shallow roots and buttressed stems. Hydrophytic vegetation is present if an adaptation is observed in more than 50% of FACU species growing in an area that contains hydric soil and wetland hydrology.

<u>Hydric Soils</u>: Hydric soils are defined in the manual as "soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part." Field indicators of hydric soil are found in the NTCHS Field Indicators of Hydric Soils in the United States (USDA Natural Resources Conservation Service 2006b or current version).

<u>Wetland Hydrology</u>: The wetland hydrology criterion is often the most difficult to determine. Typically, the presence of water for a portion of the growing season creates anaerobic conditions. Anaerobic conditions lead to the prevalence of wetland plants. Morphological adaptations of plants, driftlines and watermarks are examples of wetland hydrology field indicators.

RESULTS AND DISCUSSION

STUDY AREA

The study area is located to the southeast of the intersection of West 33rd Street and South Pulaski Road (Exhibit 1). The study area consists of a decommissioned abandoned coal-fired power plant, including buildings, asphalt, concrete and compacted gravel surfaces, uplands, the Chicago Sanitary and Ship Canal and six investigated areas (Exhibit 6).

In our opinion, Investigated Areas 1 through 6 are manmade stormwater features that were excavated in dry land within non-hydric soils to aid in stormwater management and continue to function in that capacity. Therefore, in our opinion, the investigated areas should be exempt from federal regulations.

We recommend submitting a Jurisdictional Determination request to the USACE to determine whether the investigated areas will be regulated under Section 404 of the Clean Water Act.

IDENTIFIED WATERS OF THE U.S.

Waters of the U.S. are defined as the ordinary high water mark in non-tidal waters, provided the jurisdiction is not extended by the presence of wetlands. The term "ordinary high water mark" (OHWM) refers to the line established by the fluctuations of water. These fluctuations can be indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, or the presence of litter and debris.

Chicago Sanitary and Ship Canal

The Chicago Sanitary and Ship Canal is a navigable waters of the U.S. that runs in an east-west direction along the south boundary of the study area (Exhibit 6). Dominant vegetation included within the riparian zone of the study area consisted of eastern cottonwood (*Populus deltoides*), common buckthorn (*Rhamnus cathartica*), smooth sumac (*Rhus glabra*), common reed (*Phragmites australis*), bull thistle (*Cirsium vulgare*) and riverbank grape (*Vitis riparia*).

The ordinary high water mark was determined by a defined scour line along the bank of the river, a wrack line, and water marks on existing trees and along areas that contained a sheet pile wall. Site topography surrounding the riparian areas along the river was steep, with areas of the bank being vertical where existing sheet pile armoring existed.

The upland areas to the north of the riparian zone of the river were dominated by mugwort (*Artemisia vulgaris*), sweet white clover (*Melilotus alba*) tall goldenrod (*Solidago altissima*) and Queen Anne's lace (*Daucus carota*). The site contained old commercial buildings, a combination of asphalt and concrete impervious surfaces, compacted gravel, and scattered grasses and weeds. Site topography was generally flat with undulations within existing fills areas or manmade depressions that contain stormwater runoff.

INVESTIGATED AREAS DESCRIPTION

The following is a brief description of the investigated areas with a list of the dominant plant species observed and their corresponding wetland indicator categories. A coefficient of conservatism (*C*-value) is also included for each plant species. *C*-values were established by Swink and Wilhelm (1999) to quantify a wetland's native attribute for comparative purposes.

Each plant species is rated on a scale of 0 to 10, 0-representing non-native or noxious species commonly found in a variety of habitats, and 10 representing plants found only under specific ecological conditions. The *C*-values of plants found in wetland areas can give some insight as to the overall quality or value of the wetland. Wetlands containing

an abundance of plants with a low C-value suggest that these wetlands have been disturbed in the past. Wetlands containing an abundance of plants with a high C-value suggest that specific ecological conditions necessary for their survival are intact thus disturbance is probably minimal and the wetland maintains at least some of its original integrity.

Investigated Area 1

Investigated Area 1, characterized at data point 1A, was identified in the southeast portion of the study area. The area consists of two drainage swales containing primarily facultative wetland and obligate wetland plant species. Dominant vegetation within the drainage swales consisted of common reed (*Phragmites australis*), narrow-leaved cattail (*Typha angustifolia*) and marsh spike rush (*Eleocharis obtusa*). The presence of these species meets the hydrophytic vegetation criteria.

Positive wetland hydrology was indicated by a presence of saturation, geomorphic position, and FAC-neutral test. Soils within the investigated area were mapped as Urban Land, which is classified as a non-hydric soil. Observed soil profiles indicated the presence of compacted gravel fill material, which indicated evidence of historic excavation and filling practices.

In our opinion, Investigated Area 1 should be considered to be exempt from federal regulations because it consists of two manmade drainage swales that were excavated in dry land within non-hydric soils to aid in stormwater management and they continue to function in that capacity.

The following plant list was collected within the investigated area:

```
FLORISTIC QUALITY DATA
                                Native
                                                  100.0%
                                                              Adventive
                                                                                  0.0%
     5 NATIVE SPECIES
                                Tree
                                              Ω
                                                   0.0%
                                                              Tree
                                                                            0
                                                                                  0.0%
        Total Species
                                Shrub
                                                    0.0%
                                                              Shrub
                                                                                  0.0%
   2.8 NATIVE MEAN C
                                W-Vine
                                              0
                                                    0.0%
                                                              W-Vine
                                                                                  0.0%
                                                              H-Vine
P-Forb
                                                    0.0%
   2.8 W/Adventives
                                H-Vine
                                              0
                                                                            0
                                                                                  0.0%
   6.3 NATIVE FQI
                                P-Forb
                                                   40.0%
                                                                                  0.0%
   6.3 W/Adventives
                                              0
                                                    0.0%
                                                              B-Forb
                                                                            0
                                B-Forb
                                                                                  0.0%
   -3.0 NATIVE MEAN W
                                A-Forb
                                                    0.0%
                                                              A-Forb
                                                                                  0.0%
                                                                           0
                                                   40.0%
                                                              P-Grass
   -3.0 W/Adventives
                                P-Grass
                                                                                  0.0%
  AVG: Fac. Wetland
                                A-Grass
                                              0
                                                   0.0%
                                                              A-Grass
                                                                                  0.0%
                                           0
1
                                             0
                                                    0.0%
                                                              P-Sedge
                                                                            0
                                                                                  0.0%
                                P-Sedge
                                                   20.0%
                                                                                  0.0%
                                A-Sedge
                                                              A-Sedge
                                Cryptogam 0
                                                    0.0%
ACRONYM
         C SCIENTIFIC NAME
                                                         W WETNESS PHYSIOGNOMY COMMON NAME
          3 Eleocharis obtusa
                                                        -5 OBL Nt A-Sedge BLUNT SPIKE RUSH
ELEOBT
TUNDUD
          4 Juncus dudlevi
                                                        0 [FAC]
                                                                   Nt P-Forb DUDLEY'S RUSH
Nt P-Grass SWITCH GRASS
                                                       -1 FAC+ Nt P-Grass SWITCH GRAD
-4 FACW+ Nt P-Grass COMMON REED
-5 OBL Nt P-Forb NARROW-LEAVED CATTAIL
         5 Panicum virgatum
PANVIR
PHRAUS
          1 Phragmites australis
          1 Typha angustifolia
TYPANG
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Investigated Area 2

Investigated Area 2, characterized at data point 2A, was identified in the southeast portion of the study area to the north of Investigated Area 1. The area consists of a manmade detention basin with a vegetated interior containing primarily facultative and facultative upland plant species. Dominant vegetation within the detention basin

consisted of tall goldenrod (*Solidago altissima*), Kentucky bluegrass (*Poa pratensis*) and tall fescue (*Festuca elatior*). The presence of these species does not meet the hydrophytic vegetation criteria of a wetland.

Positive wetland hydrology was indicated by a presence of saturation and geomorphic position. Soils within the investigated area were mapped as Urban Land, which is classified as a non-hydric soil. Soil profiles were not observed due to a chain link fence restricting access to the interior of the detention basin. However, soils were assumed to be non-hydric based evidence of rock riprap observed along the bottom of the basin.

In our opinion, Investigated Area 2 should be considered to be exempt from federal regulations because it is a manmade detention basin that was excavated in dry land within non-hydric soils to aid in stormwater management and continues to function in that capacity.

The following plant list was collected within the investigated area:

FLORIS	STIC QUALITY DATA	Native	3	27.3%	Adven	tive	8 72.7%	
3 1	NATIVE SPECIES	Tree	1	9.1%	Tree		0.0%	
11	Total Species	Shrub	0	0.0%	Shrub		1 9.1%	
0.7 1	NATIVE MEAN C	W-Vine	0	0.0%	W-Vin	e	0.0%	
0.2	W/Adventives	H-Vine	0	0.0%	H-Vin	e	0.0%	
1.2 1	NATIVE FQI	P-Forb	1	9.1%	P-For	b	3 27.3%	
0.6	W/Adventives	B-Forb	0	0.0%	B-For	b	2 18.2%	
	NATIVE MEAN W	A-Forb	0	0.0%	A-For	b	0.0%	
1.4	W/Adventives	P-Grass	1	9.1%	P-Gra	ss	2 18.2%	
AVG: I	Faculative (+)	A-Grass	0	0.0%	A-Gra	ss	0.0%	
		P-Sedge	0	0.0%	P-Sed	ge	0.0%	
		A-Sedge	0	0.0%	A-Sed	ge	0.0%	
		Cryptogam	0	0.0%				
ACRONYM	C SCIENTIFIC NAME			TAT	WETNESS	DHVSTOCN	OMY COMMON	NAME
ACESAI	0 Acer saccharinum			• • • • • • • • • • • • • • • • • • • •	FACW	Nt. Tree		
DAUCAR	0 DAUCUS CAROTA			-	UPL	Ad B-For		ANNE'S LACE
ELAANG	0 ELAEAGNUS ANGUSTIF	OT.T A			FACU-	Ad Shrub	~ -	N OLIVE
FESELA	0 FESTUCA ELATIOR	ODIN			FACU+	Ad P-Gra		
MELALB	0 MELILOTUS ALBA				FACU	Ad B-For		SWEET CLOVER
PHRAUS	1 Phragmites austral	is			FACW+	Nt. P-Gra		
PLALAN	0 PLANTAGO LANCEOLAT			-	FAC	Ad P-For		H PLANTAIN
PLAMAJ	0 PLANTAGO MAJOR				FAC+	Ad P-For	b COMMON	PLANTAIN
POAPRA	0 POA PRATENSIS				FAC-	Ad P-Gra		KY BLUE GRASS
SOLALT	1 Solidago altissima				FACU	Nt P-For		OLDENROD
TRIPRA	0 TRIFOLIUM PRATENSE				UPL	Ad P-For		

Investigated Area 3

Investigated Area 3, characterized at data point 3A, was identified in the south portion of the study area. The area consists of a detention basin with a vegetated interior containing primarily obligate wetland plant species. Dominant vegetation within the manmade depression consisted of narrow-leaved cattail. The presence of this species meets the hydrophytic vegetation criteria.

Positive wetland hydrology was indicated by a presence of surface water, high water table, saturation, geomorphic position, and FAC-neutral test. Soils within the investigated area were mapped as Urban Land, which is classified as a non-hydric soil. Soil profiles consisted of gravel fill material. Therefore, soils were assumed to be non-hydric.

In our opinion, Investigated Area 3 should be considered to be exempt from federal regulations because it is a manmade detention basin that was excavated in dry land within non-hydric soils to aid in stormwater management and continues to function in that capacity.

The following plant list was collected within the investigated area:

FLORISTIC QUALITY DATA	Native	5	100.0%	Adven	tive 0	0.0%
5 NATIVE SPECIES	Tree	1	20.0%	Tree	0	0.0%
5 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.6 NATIVE MEAN C	W-Vine	0	0.0%	W-Vin	.e 0	0.0%
2.6 W/Adventives	H-Vine	0	0.0%	H-Vin	.e 0	0.0%
5.8 NATIVE FQI	P-Forb	1	20.0%	P-For	b 0	0.0%
5.8 W/Adventives	B-Forb	0	0.0%	B-For	b 0	0.0%
-4.0 NATIVE MEAN W	A-Forb	0	0.0%	A-For	b 0	0.0%
-4.0 W/Adventives	P-Grass	1	20.0%	P-Gra	ss 0	0.0%
AVG: Fac. Wetland (+)	A-Grass	0	0.0%	A-Gra	ss 0	0.0%
	P-Sedge	2	40.0%	P-Sed	ge 0	0.0%
	A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
	Cryptogam	0	0.0%			
ACRONYM C SCIENTIFIC NAME				W WETNESS	PHYSIOGNOMY	COMMON NAME
PHRAUS 1 Phragmites australi	s			-4 FACW+	Nt P-Grass	COMMON REED
POPDEL 2 Populus deltoides				-1 FAC+	Nt Tree	EASTERN COTTONWOOD
SCIATR 4 Scirpus atrovirens				-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIVAC 5 Scirpus validus cre	ber			-5 OBL	_	GREAT BULRUSH
TYPANG 1 Typha angustifolia				-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

Investigated Area 4

Investigated Area 4, characterized at data point 4A, was identified in the south portion of the study area to the north of Investigated Area 3. The area consists of a detention basin with a vegetated interior containing primarily facultative wetland plant species. Dominant vegetation within the manmade depression consisted of common reed. The presence of this species meets the hydrophytic vegetation criteria.

Positive wetland hydrology was indicated by a presence of surface water, high water table, saturation, geomorphic position, and FAC-neutral test. Soils within the investigated area were mapped as Urban Land which is classified as a non-hydric soil. Soil profiles were not observed due to gravel fill material that existed within the bottom of the detention basin. Therefore, soils were assumed to be non-hydric.

In our opinion, Investigated Area 4 should be considered to be exempt from federal regulations because it is a manmade detention basin that was excavated in dry land within non-hydric soils to aid in stormwater management and continues to function in that capacity.

The following plant list was collected within the investigated area:

FLORISTIC QUA	ALITY DATA	Native	1	100.0%	Adventive	0	0.0%
1 NATI	VE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Tota	al Species	Shrub	0	0.0%	Shrub	0	0.0%
1.0 NATI	VE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.0 W/A	dventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.0 NATI	VE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
1.0 W/A	dventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-4.0 NATI	VE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-4.0 W/A	dventives	P-Grass	1	100.0%	P-Grass	0	0.0%
AVG: Fac.	Wetland (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%

		A-Sedge Cryptogam	0	0.0% 0.0%	A-Sed	ge 0	0.0%	
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON	NAME
PHRAUS	1 Phragmites australi	s		-4	FACW+	Nt P-Grass	COMMON	REED

Investigated Area 5

Investigated Area 5, characterized at data point 5A, was identified in the north portion of the study area. The area consists of a manmade depression with a drainage ditch running along its south and west boundaries. The area consisted of a vegetated interior containing primarily facultative wetland plant species. Dominant vegetation within the manmade depression consisted of common reed. The presence of this species meets the hydrophytic vegetation criteria.

Positive wetland hydrology was indicated by a presence of surface water, high water table, saturation, geomorphic position, and FAC-neutral test. Soils within the investigated area were mapped as Urban Land, which is classified as a non-hydric soil. Soil profiles consisted of coal ash from the prior site use as a coal-fired power plant. Therefore, soils were assumed to be non-hydric.

In our opinion, Investigated Area 5 should be considered to be exempt from federal regulations because it is a manmade depression that was excavated in dry land within non-hydric soils to aid in stormwater management and continues to function in that capacity.

The following plant list was collected within the investigated area:

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FLORISTIC OUBLITY DATA
                               Native
                                               100.0%
                                                           Adventive
                                                                              0.0%
     4 NATIVE SPECIES
                                                           Tree
Shrub
                                                                              0.0%
                                            0
                                                 0.0%
                               Tree
                                                                         0
     4 Total Species
                               Shrub
                                                  0.0%
                                                                        0
                                            0
                                                                              0.0%
   2.8 NATIVE MEAN C
                               W-Vine
                                                                              0.0%
                                                 0.0%
                                                           W-Vine
                                           0
   2.8 W/Adventives
                              H-Vine
P-Forb
                                                  0 0%
                                                           H-Vine
P-Forb
                                                                       0
                                                                              0 0%
                                            Ω
                                                 25.0%
   5.5 NATIVE FOI
                                                                              0.0%
                                                           B-Forb
                                            0
                                                 0.0%
                                                                       0
   5.5 W/Adventives
                              B-Forb
                                                                              0.0%
                                                          A-Forb
  -4.7 NATIVE MEAN W
                              A-Forb
                                            0
                                                 0.0%
                                                                              0.0%
  -4.7 W/Adventives
                              P-Grass
                                                25.0%
                                                           P-Grass
                                                                       0
                                                                              0.0%
                                            1
                              A-Grass
                                                           A-Grass
  AVG: Obl. Wetland
                                            0
                                                 0.0%
                                                                              0.0%
                              P-Sedge
                                         2 50.0%
0 0.0%
                                                                       0
                                                           P-Sedge
                                                                              0.0%
                              A-Sedge
                                                           A-Sedge
                                                                              0 0%
                               Cryptogam 0
                                                 0.0%
ACRONYM C SCIENTIFIC NAME
                                                      W WETNESS PHYSIOGNOMY COMMON NAME
PHRAUS
         1 Phragmites australis
                                                     -4 FACW+ Nt P-Grass COMMON REED
        4 Scirpus atrovirens
                                                     -5 OBL Nt P-Sedge DARK GREEN RUSH
-5 OBL Nt P-Sedge GREAT BULRUSH
-5 OBL Nt P-Forb NARROW-LEAVED CATTAIL
                                                               Nt P-Sedge DARK GREEN RUSH
SCIATR
         5 Scirpus validus creber
SCIVAC
TYPANG 1 Typha angustifolia
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Investigated Area 6

Investigated Area 6, characterized at data point 6A, was identified in the northwest portion of the study area. The area consists of a detention basin with an open water interior that is partially vegetated with primarily obligate wetland plant species. Dominant vegetation within the detention basin consisted of narrow-leaved cattail. The presence of this species meets the hydrophytic vegetation criteria.

Positive wetland hydrology was indicated by a presence of surface water, high water table, saturation, geomorphic position, and FAC-neutral test. Soils within the investigated area were mapped as Urban Land, which is classified as a non-hydric soil. Soil profiles were not observed due a rubber liner that existed within the detention basin. Therfore, soils were assumed to be non-hydric.

In our opinion, Investigated Area 6 should be considered to be exempt from federal regulations because it is a manmade detention basin that was excavated in dry land within non-hydric soils to aid in stormwater management and continues to function in that capacity.

The following plant list was collected within the investigated area:

FLORISTIC QUALITY DATA 6 NATIVE SPECIES 6 Total Species 1.0 NATIVE MEAN C 1.0 W/Adventives 2.4 NATIVE FQI 2.4 W/Adventives -2.8 NATIVE MEAN W -2.8 W/Adventives AVG: Fac. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass	6 3 0 1 0 1 0 0 1	100.0% 50.0% 0.0% 16.7% 0.0% 16.7% 0.0% 0.0%	Adventiv Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass	0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
	P-Sedge A-Sedge Cryptogam	0 0	0.0% 0.0% 0.0%	P-Sedge A-Sedge		0.0% 0.0%
ACRONYM C SCIENTIFIC NAME ACENEG 0 Acer negundo ACESAI 0 Acer saccharinum PHRAUS 1 Phragmites australi POPDEL 2 Populus deltoides TYPANG 1 Typha angustifolia VITRIP 2 Vitis riparia	s		-2 -3 -4 -1 -5	FACW Nt FACW Nt FACW+ Nt FAC+ Nt OBL Nt	YSIOGNOMY Tree Tree P-Grass Tree P-Forb	COMMON NAME BOX ELDER SILVER MAPLE COMMON REED EASTERN COTTONWOOD NARROW-LEAVED CATTAIL RIVERBANK GRAPE

REFERENCE MATERIALS

The following reference materials were reviewed and used to assist in the wetland field reconnaissance. They are included as Exhibits 1-5.

LOCATION MAP

The study area is located southeast of the intersection of West 33rd Street and South Pulaski Road in Chicago, Cook County, Illinois (Exhibit 1). Geographically, the study area is located in Section 35, Township 39 North, and Range 13 East of the Third Principal Meridian (41.830182°N; -87.721523°W).

NATIONAL WETLAND INVENTORY

The National Wetland Inventory (NWI), Englewood Quadrangle (1983), indicates wetlands are mapped within the study area (Exhibit 2). The NWI serves only as a large-scale guide and actual wetland locations and types often vary from that mapped. The following wetland types are mapped within the study area:

PUBHx - Palustrine, unconsolidated bottom, permanently flooded, excavated

PUBK - Palustrine, unconsolidated bottom, artificially flooded

R2UBHx - Riverine, lower perennial, unconsolidated bottom,

permanently flooded, excavated

SOIL SURVEY

The Soil Survey of Cook County, Illinois (2001) was reviewed to determine the location of hydric soils within the study area (Exhibit 3). The following soil type is mapped within the study area:

533 – Urban land

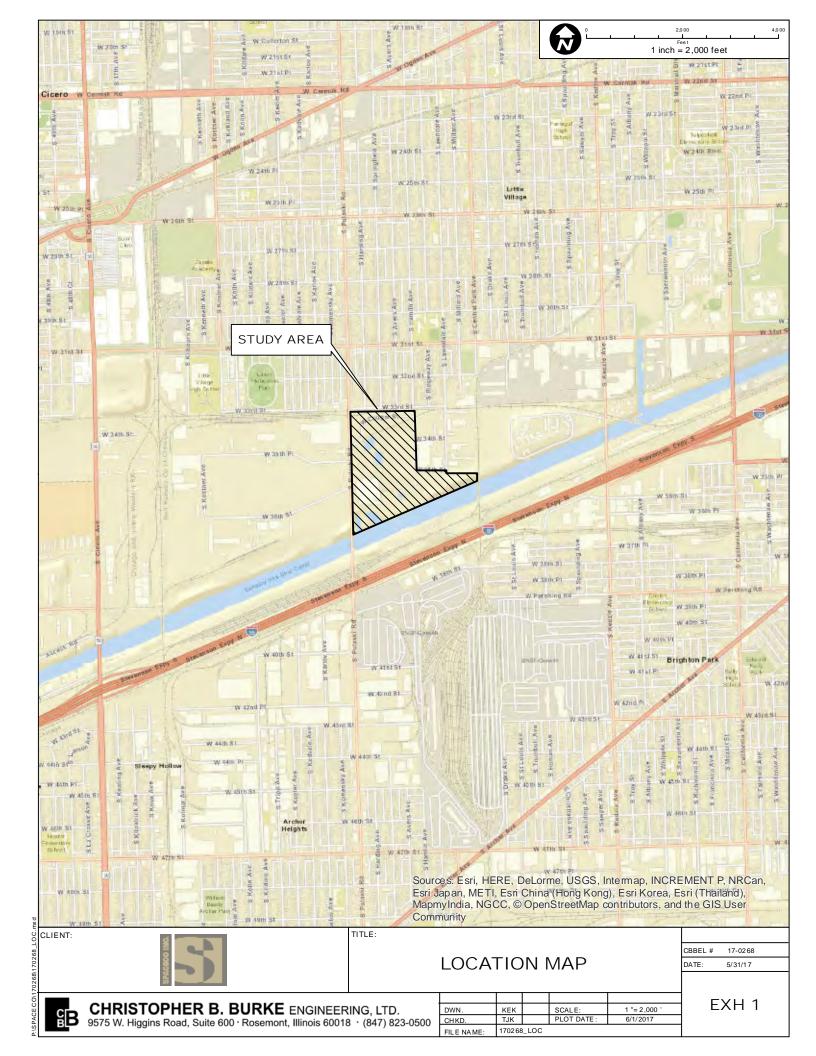
802A – Orthents, loamy, nearly level 805B – Orthents, clayey, undulating

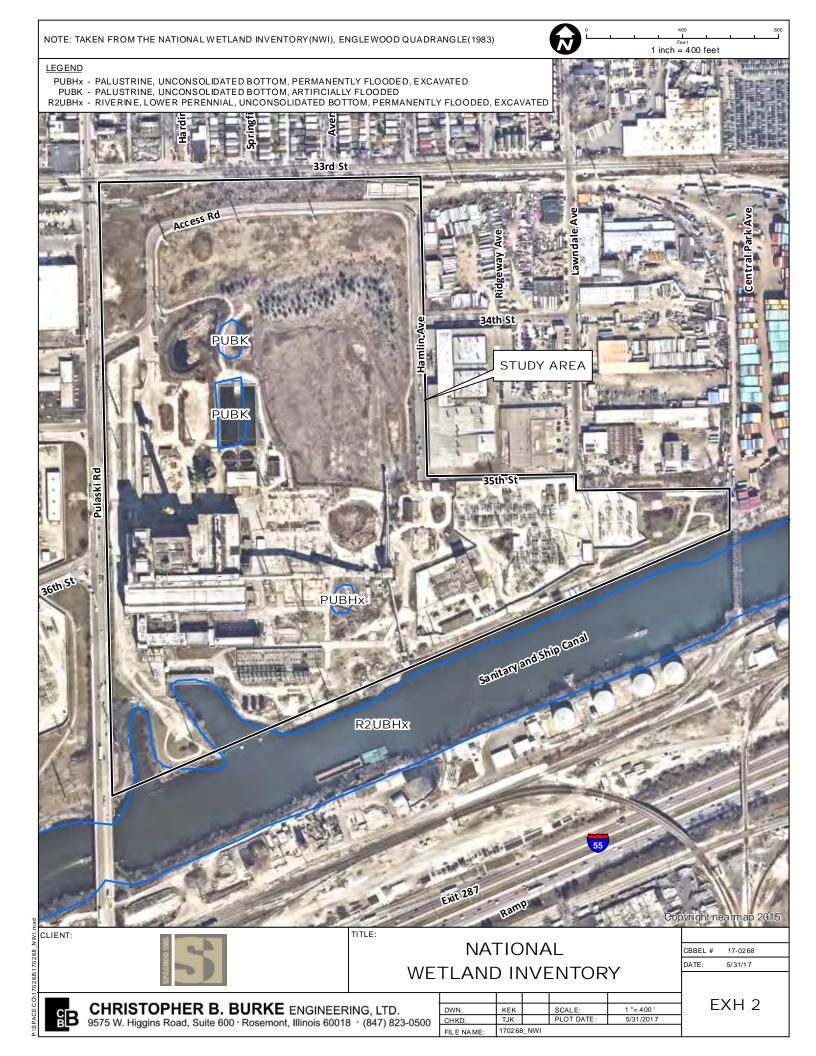
UNITED STATES GEOLOGICAL SURVEY

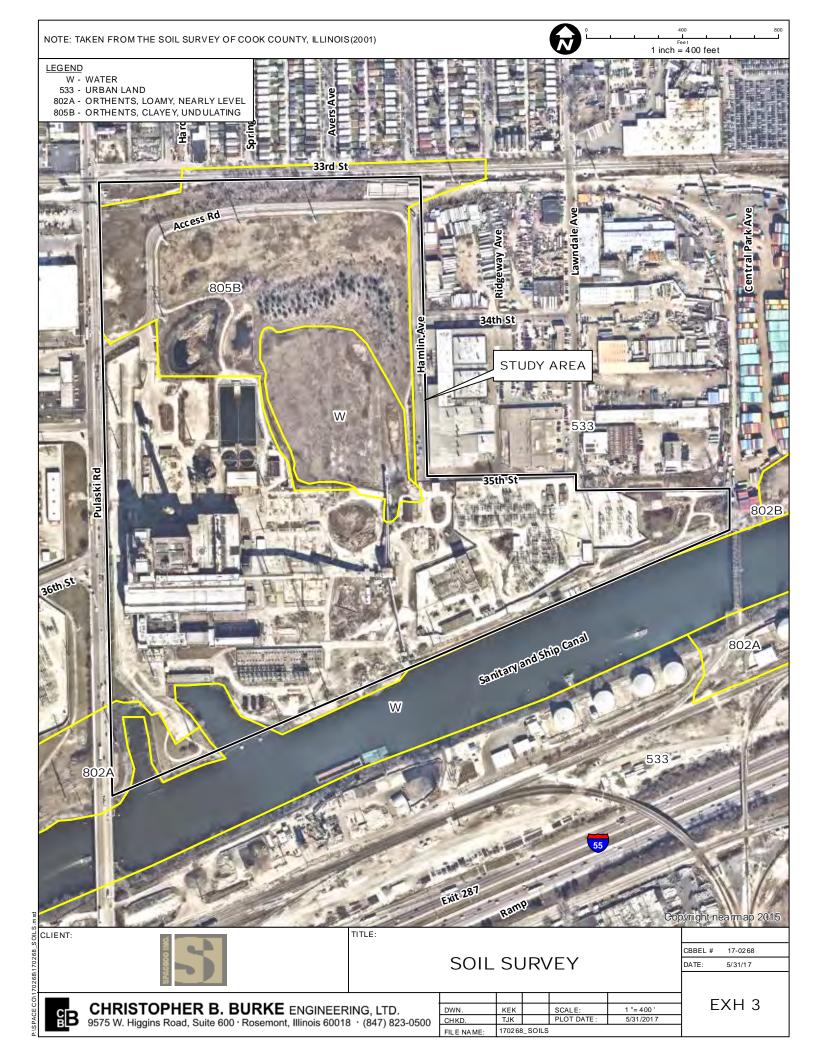
The United States Geological Survey (USGS), Englewood Quadrangle (1993) was reviewed to determine historic local drainage patterns (Exhibit 4). The USGS map indicates that site runoff flows south into the Chicago Sanitary and Ship Canal.

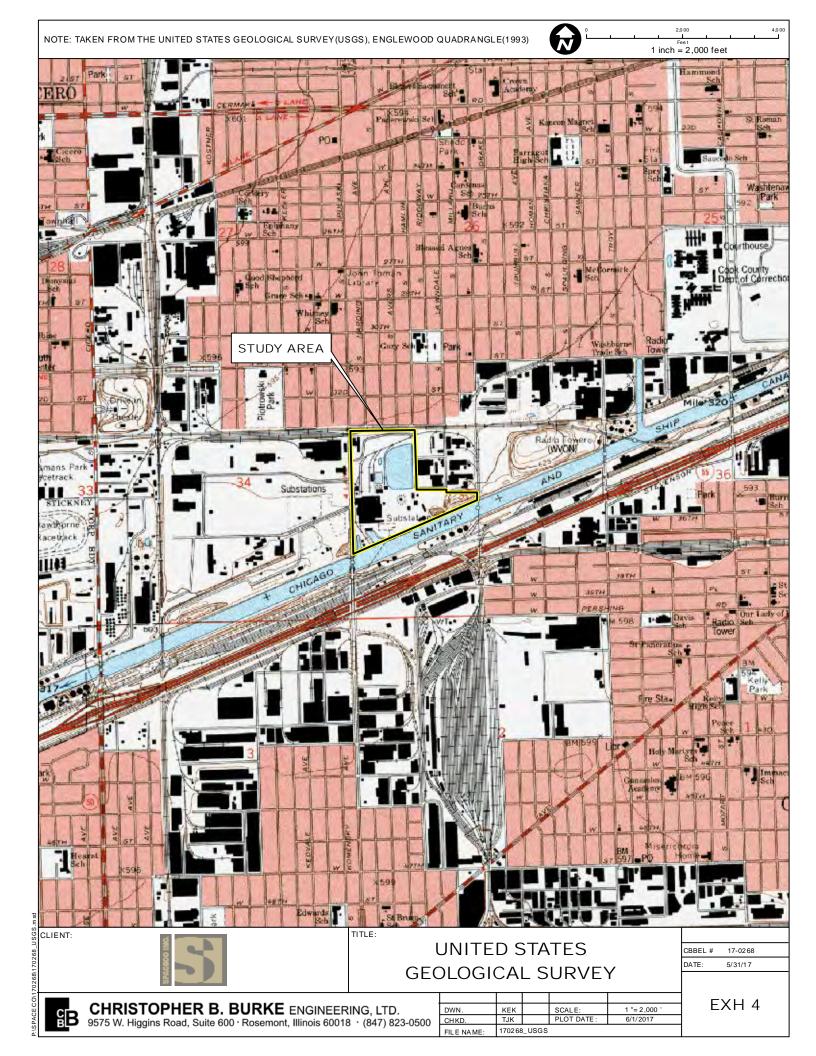
FLOOD INSURANCE RATE MAP

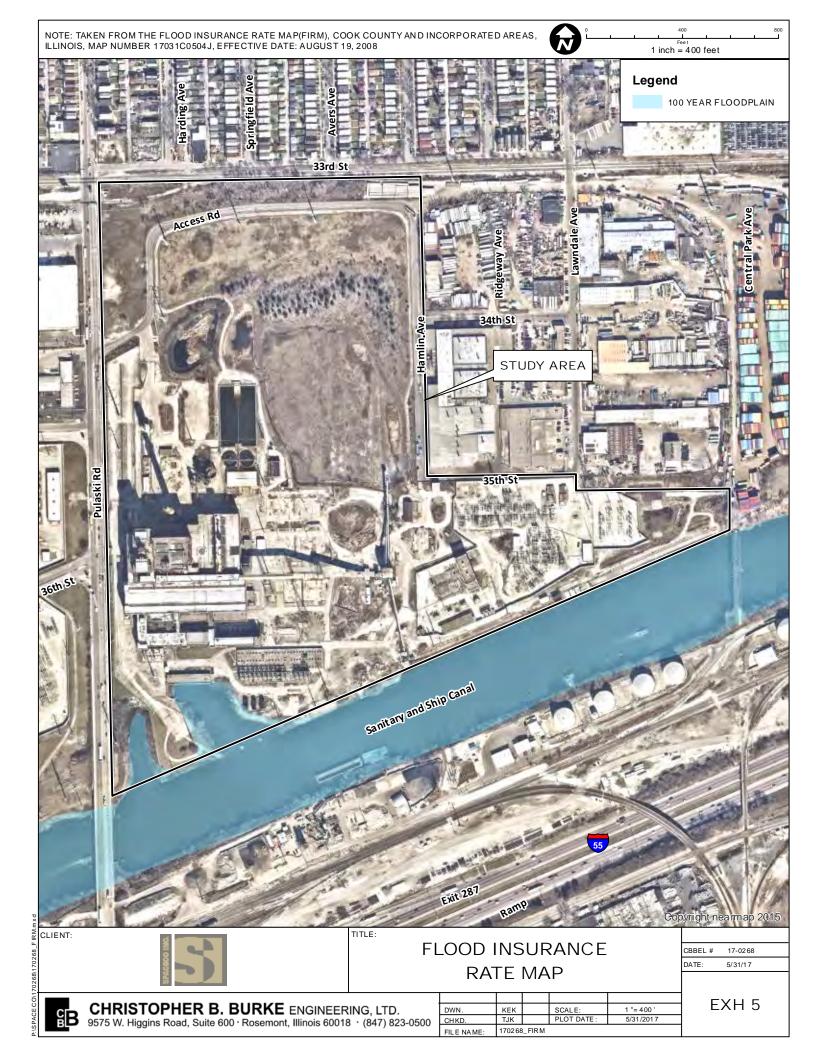
The Flood Insurance Rate Map (FIRM) for Cook County and Incorporated Areas, Illinois, Map Number 17031C0504 J, effective August 19, 2008, was reviewed to determine the location of regulatory floodplain within the study area (Exhibit 5). The presence of floodplain can be indicative of wetland hydrology. The FIRM indicates 100-year regulatory floodplain is mapped within the Chicago Sanitary and Ship Canal.















Chicago Sanitary and Ship Canal – Facing northwest



Investigated Area 1 – Facing west



Chicago Sanitary and Ship Canal – Facing north



Investigated Area 2 – Facing west



Christopher B. Burke Engineering, Ltd. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 847-823-0500

CLIENT:	SPACECO, Inc.	PROJECT NO.:170268	5/31/17
	EXHIBIT: 7A		



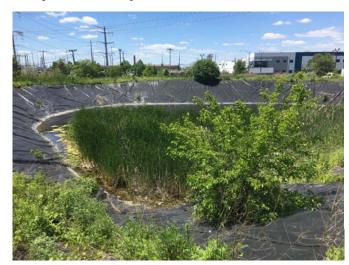
Investigated Area 3 – Facing southwest



Investigated Area 5 – Facing southwest



Investigated Area 4 - Facing south



Investigated Area 6 – Facing west



Christopher B. Burke Engineering, Ltd. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 847-823-0500

CLIENT: SPACECO, Inc.	PROJECT NO.:170268	5/31/17
Crawford Site, Chicago, Cook Coun	EXHIBIT: 7B	

Project/Site Crawford Site	City/C	County:	Chicago/Co	ook	Sampling Da	ate: 5/31/17
Applicant/Owner: SPACECO, Inc.	-	State:	IL		Sampling Poi	int: 1A
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S:	35, T:39N, R:13E
Landform (hillslope, terrace, etc.): depression	n	Local re	elief (concav	e, convex	k, none):	concave
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	NAD83
Soil Map Unit Name Urban land			NMI (Classificat	tion:	None
Are climatic/hydrologic conditions of the site typical for this	s time of	the year?	Y (I	f no, expla	ain in remarks	s)
Are vegetation , soil , or hydrology		significantly	disturbed?		Are "normal	circumstances"
Are vegetation , soil , or hydrology		naturally pro	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If need	led, explain ar	ny answers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? N		Is the sa	ampled area	a within a	a wetland?	<u>N</u>
Indicators of wetland hydrology present? Y		f yes, op	tional wetlan	d site ID:	Investigate	ed Area 1
Remarks: (Explain alternative procedures here or in a sep-	arate re	port.)				
		,				
VEGETATION Use scientific names of plants.						
·	osolute	Dominan	Indicator	Domina	ance Test Wo	orksheet
Tree Stratum (Plot size: 30') %	Cover	t Species	Staus	Number	of Dominant S	Species
1				that are	OBL, FACW, o	or FAC: 3 (A)
2					Number of Do	
3					cies Across all	
					of Dominant S	Species or FAC: 100.00% (A/B)
	0 =	Total Cover		that are	ODL, I AOW, C	011 AO. 100.0070 (A/D)
Sapling/Shrub stratum (Plot size: 15')				Prevale	ence Index W	/orksheet
1			_	Total %	Cover of:	
2				OBL sp	ecies 60	0 x 1 = 60
3					species 40	
				FAC sp		<u> </u>
<u> </u>	0 =	Total Cover		FACU s UPL sp	• —	<u> </u>
Herb stratum (Plot size: 5')		· Total Covel		Column		
1 Phragmites australis	40	Υ	FACW		ence Index = E	`'`'
2 Typha angustifolia	30	<u> </u>	OBL	Trovalo	nico macx – E	1.10
3 Eleocharis obtusa	30	Υ	OBL	Hydrop	hytic Vegeta	tion Indicators:
4				Rap	pid test for hy	drophytic vegetation
5					minance test i	
6				X Pre	evalence index	x is ≤3.0*
7						ptations* (provide
8					porting data i parate sheet)	n Remarks or on a
10					-	rophytic vegetation*
	100 =	Total Cover			plain)	opriyuo vegetation
Woody vine stratum (Plot size: 30')						and wetland hydrology must be
1					•	disturbed or problematic
2				_	drophytic	
	0 =	Total Cover		_	getation esent?	V
David (Ind. Ind. Ind. Ind. Ind. Ind. Ind. Ind.	.1()			ріс	<u>-</u>	<u>'</u>
Remarks: (Include photo numbers here or on a separate s	sheet)					

SOIL Sampling Point: 1A

Profile Desc	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicat	or or confirm the	e absenc	e of indicators.)
Depth	<u>Matrix</u>		Re	dox Feat	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture		Remarks
0-8							gravel fill		Soils are mixed with gravel fill
8+							compacted fill		
							, , , , , , , , , , , , , , , , , , , ,		
								+	
*Typo: C = 0	Concentration, D =	- Donloti	on PM – Poduce	d Matrix	MS - N	lacked S	and Grains	**Location	n: PL = Pore Lining, M = Matrix
	il Indicators:	= Depleti	OII, KIVI = Keduce	eu iviailix	, IVIS = IV	naskeu S			ematic Hydric Soils:
-	isol (A1)		Sar	ndy Gleye	ad Matrix	(84)			lox (A16) (LRR K, L, R)
	ic Epipedon (A2)			idy Gleye idy Redo		(34)) (LRR K, L)
	ck Histic (A3)			pped Ma					or Peat (S3) (LRR K, L, R)
	rogen Sulfide (A4	1)		my Mucl	. ,	ol (E1)		•	Masses (F12) (LRR K, L, R)
	itified Layers (A5)			my Gley	-	. ,			k Surface (TF12)
	n Muck (A10)			oleted Ma				explain in i	, ,
	leted Below Dark	Surface		dox Dark	. ,			λριαιιτ ΙΙΤΙ	emarks)
· ·	ck Dark Surface (· /	oleted Da		. ,	*Indicator	e of bydro	ophytic vegetation and weltand
	dy Mucky Minera	,		dox Depr		. ,			e present, unless disturbed or
Gan	dy Macky Milicia	1 (01)		iox Depi	03310113	(10)	Hydrolog		problematic
						1			
	Layer (if observe	ed):							o N
	ock				•		Hydric so	il present	? <u>N</u>
Depth (inche	es): 8				-				
Remarks:						u.			
Rock fill	was encounter	ed at 8	inches in the s	oil profi	le.				
HYDROLO	OGY								
Wetland Hy	drology Indicato	rs:							
Primary Indi	cators (minimum	of one is	required: check	all that a	(vlaa		Seco	ndary Indi	cators (minimum of two required)
	Water (A1)	0. 0			Fauna (B	(13)	<u>0000.</u>		Soil Cracks (B6)
	ter Table (A2)				uatic Plar			-	Patterns (B10)
X Saturation	` '					Odor (C	1)		on Water Table (C2)
Water M	arks (B1)			Oxidized	l Rhizosp	heres on	Living Roots		Burrows (C8)
Sedimer	t Deposits (B2)			(C3)				Saturation	n Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)			Presenc	e of Redu	uced Iron			r Stressed Plants (D1)
Algal Ma	t or Crust (B4)			Recent I	ron Redu	action in T	illed Soils X	Geomorp	hic Position (D2)
	osits (B5)			(C6)			X	FAC-Neur	tral Test (D5)
	on Visible on Aeria		· · · —		ck Surfac				
	Vegetated Conca		ce (B8)	_	or Well Da				
	tained Leaves (B9))		Other (E	xplain in	Remarks)		
Field Obser									
Surface water		Yes	No	X	Depth (i			l	
Water table	•	Yes	No No	X	Depth (i				icators of wetland
Saturation p		Yes	X No		Depth (i	incnes):	surface	ny	drology present? Y
(includes ca								<u> </u>	
Describe red	corded data (strea	ım gauge	e, monitoring well	, aerial p	hotos, p	revious ir	nspections), if ava	ailable:	
Remarks:									
indirks.									

Project/Site Crawford Site	City/0	County:	Chicago/Co	ook S	ampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL	Sa	ampling Point:	1B
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S: 35, T:3	39N, R:13E
Landform (hillslope, terrace, etc.): terrace	е	Local re	elief (concav	e, convex, n	none):	convex
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23 D	atum:	NAD83
Soil Map Unit Name Urban land			NWI C	Classification	า:	None
Are climatic/hydrologic conditions of the site typical for t	this time o	f the year?	Y (I	f no, explain	in remarks)	
Are vegetation , soil , or hydrolog	gy	significantly	disturbed?	Aı	re "normal circum	stances"
Are vegetation , soil , or hydrolog	gy	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If needed	i, explain any ans	wers in remarks.)
Hydrophytic vegetation present? N						
Hydric soil present? N		Is the s	ampled area	a within a w	etland?	N
Indicators of wetland hydrology present?		f yes, op	tional wetlan	d site ID:	Investigated Area	a 1
Remarks: (Explain alternative procedures here or in a so	enarate re	enort)				
Tromano. (Explain alternative procedures here of in a si	oparato re	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
VEGETATION Use scientific names of plants						
	Absolute	Dominan	Indicator	Dominan	ce Test Workshe	oot .
		t Species	Staus		Dominant Species	
1					BL, FACW, or FAC	
2					umber of Dominan	``
3				Specie	s Across all Strata	: <u>4</u> (B)
4					Dominant Species	
5				that are OE	BL, FACW, or FAC	: <u>25.00%</u> (A/B)
	0 :	=Total Cover	ſ			
Sapling/Shrub stratum (Plot size: 15') 1 Elaeagnus angustifolia	20	Υ	FACU	Total % C	ce Index Worksh	eet
2	20		TACO	OBL spec		I = 0
3				FACW sp		
4				FAC spec		3 = 30
5				FACU spe	ecies 85 x 4	1 = 340
_	20	= Total Cover	•	UPL spec		
Herb stratum (Plot size: 5')				Column to	otals <u>115</u> (A)) <u>410</u> (B)
1 Festuca arundinacea	30	<u>Y</u>	FACU	Prevalenc	e Index = B/A =	3.57
2 Phalaris arundinacea	20	<u>Y</u>	FACW	11	da Manadadan I	. P
3 Solidago altissima 4 Plantago lanceolata	20 15	Y N	FACU FACU		<pre>/tic Vegetation Ir test for hydrophy</pre>	
5 Plantago major	10	N	FAC		nance test is >509	•
6					lence index is ≤3.	
7				— Morph	nogical adaptation	ns* (provide
8				-	orting data in Rem	**
9				separ	ate sheet)	
10					ematic hydrophyti	c vegetation*
- (Plate) - (O)	95	=Total Cover	ſ	(expla	in)	
Woody vine stratum (Plot size: 30')					•	tland hydrology must be
				· ·	esent, unless disturbe	d or problematic
	0 :	= Total Cover		veget		
	ū			prese	ent? N	<u>-</u>
Remarks: (Include photo numbers here or on a separate	e sheet)					

SOIL Sampling Point: 1B

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm t	he absenc	e of indicators.)
Depth	Matrix			dox Feat					·
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textur	е	Remarks
0-2	10YR 3/3	100					silt loam mixe	ed with fill	Soils are mixed with gravel fill
2+							Gravel fill		3
2+							Giavei IIII		
		= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S			n: PL = Pore Lining, M = Matrix
Hydric So	il Indicators:						Indicators	for Proble	ematic Hydric Soils:
Hist	isol (A1)		San	dy Gleye	ed Matrix	(S4)	Coast	Prairie Red	dox (A16) (LRR K, L, R)
Hist	ic Epipedon (A2)		San	dy Redo	x (S5)				") (LRR K, L)
Blad	ck Histic (A3)		Stri	oped Ma	trix (S6)		5 cm N	/lucky Peat	t or Peat (S3) (LRR K, L, R)
— Hyd	lrogen Sulfide (A4	1)	Loa	my Mucł	ky Minera	al (F1)	Iron-M	anganese	Masses (F12) (LRR K, L, R)
Stra	tified Layers (A5))	Loa	my Gley	ed Matrix	(F2)	Very S	hallow Da	rk Surface (TF12)
2 cr	n Muck (A10)		Dep	leted Ma	atrix (F3)		Other	(explain in	remarks)
	leted Below Dark		(A11) Rec	lox Dark	Surface	(F6)			
Thic	ck Dark Surface (A12)	Dep	leted Da	ırk Surfa	ce (F7)	*Indicate	ors of hydro	ophytic vegetation and weltand
	dy Mucky Minera		Rec	lox Depr	essions ((F8)			e present, unless disturbed or
									problematic
Restrictive	Layer (if observe	a4).							
	ravel fill	Juj.					Hydric s	oil presen	t? N
Depth (inche							riyaric s	on presen	
					•				
Remarks:									
Gravel fil	I was encounte	ered at 2	2 inches in the	soil pro	file.				
HYDROLO	OGY								
Wetland Hy	drology Indicato	rs:							
Primary Indi	cators (minimum	of one is	required; check	all that a	(ylqq		Sec	ondary Ind	icators (minimum of two required)
-	Water (A1)				Fauna (B	13)			Soil Cracks (B6)
	iter Table (A2)				uatic Plar				Patterns (B10)
Saturation	` '				n Sulfide	. ,	1)		son Water Table (C2)
	arks (B1)						Living Roots		Burrows (C8)
	nt Deposits (B2)			(C3)					n Visible on Aerial Imagery (C9)
	oosits (B3)				e of Redu	iced Iron	(C4)		or Stressed Plants (D1)
	it or Crust (B4)						illed Soils		phic Position (D2)
	osits (B5)			(C6)					itral Test (D5)
	on Visible on Aeria	l Imagery	/ (B7)		ck Surfac	e (C7)	-		
	Vegetated Conca		· ·		r Well Da				
	tained Leaves (B9				xplain in	, ,)		
Field Obser	vations:	,		` `	•		,		
Surface water		Yes	No	Х	Depth (i	nches):			
Water table	•	Yes	No	$\frac{\chi}{X}$	Depth (i			Ind	licators of wetland
Saturation p	•	Yes	No	$\frac{\chi}{\chi}$	Depth (i				drology present?
	pillary fringe)				op (.				
		m galla	e, monitoring well	aorial n	hotos ni	ovious ir	nepoctions) if a	vailable:	
Describe rec	orded data (Strea	ani gauge	e, monitoring wen	, aenai p	illotos, pi	evious ii	ispections), ii a	valiable.	
Remarks:									
i tomanto.									
1									

Project/Site Crawford Site	City/	County:	Chicago/C	ook S	Sampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Point:	2A
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Secti	on, Township	p, Range:	S: 35, T	:39N, R:13E
Landform (hillslope, terrace, etc.): depres	ssion	Local r	elief (concav	e, convex,	none):	concave
Slope (%): 0 Lat: 41.830182		Long:	-87.72152		Datum:	NAD83
Soil Map Unit Name Urban land			NWI (Classification	on:	None
Are climatic/hydrologic conditions of the site typical for	this time o	of the year?	Y (I	f no, explai	in in remarks)	
Are vegetation , soil , or hydrole	ogy	significantly	y disturbed?	,	Are "normal circur	mstances"
	ogy			,	tro mormar orrodi	present? Yes
SUMMARY OF FINDINGS				(If neede	ed, explain any an	swers in remarks.)
Hydrophytic vegetation present? N						•
Hydric soil present? N	_	Is the s	ampled area	a within a	wetland?	N
Indicators of wetland hydrology present?	-		-		Investigated Are	ea 2
	-			_		
Remarks: (Explain alternative procedures here or in a	separate re	eport.)				
VEGETATION Use scientific names of plant						
Trop Stretum (Plot size: 201	Absolute	Dominan t Species	Indicator		nce Test Worksh	
Tree Stratum (Plot size: 30')	% Cover	t Species	Staus		of Dominant Specie DBL, FACW, or FA	
2					Number of Domina	
3		-			es Across all Strat	
4				·	of Dominant Specie	``´
5					BL, FACW, or FA	
	0	= Total Cove	r			
Sapling/Shrub stratum (Plot size: 15')					nce Index Works	heet
1				Total %		
2				OBL spe		
3				FACW s FAC spe	·	2 = <u>0</u> 3 = 90
5				FACU spe		4 = 280
	0	= Total Cove		UPL spe		5 = 0
Herb stratum (Plot size: 5')				Column		
1 Solidago altissima	25	Υ	FACU	Prevalen	ice Index = B/A =	3.70
2 Poa pratensis	20	Υ	FAC			-
3 Festuca arundinacea	20	Υ	FACU	Hydroph	nytic Vegetation	Indicators:
4 Melilotus officinalis	10	N	FACU	Rapi	d test for hydroph	nytic vegetation
5 Plantago lanceolata	10	N	FACU		inance test is >50	
6 Plantago Major	10	N	FAC	Prev	alence index is ≤	3.0*
7 Trifolium pratense 8	5	N	FACU	-	phogical adaptation	**
9					oorting data in Rei arate sheet)	marks or on a
10		-			elematic hydrophy	tic vegetation*
	100	= Total Cove	r	(expl		no vogotanom
Woody vine stratum (Plot size: 30')						vetland hydrology must be
1					resent, unless disturb	
2					rophytic	
	0	= Total Cove	r	_	etation	
				pres	sent? N	_
Remarks: (Include photo numbers here or on a separa	ite sheet)					

SOIL Sampling Point: 2A

	<u> </u>	be to th	e depth n				indicat	or or confirm	the absenc	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Color (n		dox Feat %		Loc**	Textu	ıro	Remarks
, ,	Color (moist)	70	Coloi (II	10151)	70 I	Type*	LOC		ile.	
0+								Rock		Soils are mixed with rock
	oncentration, D =	Depleti	on, RM =	Reduce	ed Matrix	I, MS = N	lasked S			n: PL = Pore Lining, M = Matrix
-	Indicators:			0 -			(0.4)			ematic Hydric Soils:
	sol (A1)		_			ed Matrix	(54)			dox (A16) (LRR K, L, R)
	Epipedon (A2)		_		ndy Redo					() (LRR K, L) (for Peat (S3) (LRR K, L, R)
	k Histic (A3) ogen Sulfide (A4	`	_		pped Ma	trix (56) ky Minera	ol (E1)			Masses (F12) (LRR K, L, R)
	ified Layers (A5)	•	_		•	ed Matrix	` '		-	k Surface (TF12)
	Muck (A10)		_		-	etrix (F3)			r (explain in	
	eted Below Dark	Surface	- (Δ11)			Surface		<u> </u>	(explain in	remarks)
	k Dark Surface (/		_			ark Surfa	` '	*Indiaa	tore of budge	ophytic vegetation and weltand
	ly Mucky Minera	,	_			essions (. ,			e present, unless disturbed or
	ly widerty willion	(0.)	_		zon Bopi	00010110	(. 0)	nyaro		problematic
	(:f -	-1\-					ı			
	ayer (if observe	ea):						Hydria .	ooil process	12 N
Type: Ro Depth (inches						-		Hydric	soil present	t? <u>N</u>
Jepin (inches	5)					=				
HYDROLO										
=	rology Indicato									
•	ators (minimum	of one is	required;	check				<u>Se</u>		icators (minimum of two requir
Surface V	` '				_	Fauna (B	,	_		Soil Cracks (B6)
•	er Table (A2)					uatic Plar		_		Patterns (B10)
X Saturation Water Ma							Odor (C1) Living Roots		on Water Table (C2) Burrows (C8)
	Deposits (B2)				(C3)	ı Kılızosp	illeres on	LIVING ROOKS _		n Visible on Aerial Imagery (C9)
Drift Depo					• ' '	e of Redu	uced Iron	(C4)		or Stressed Plants (D1)
	or Crust (B4)			_	-					phic Position (D2)
Iron Depo					(C6)			_		itral Test (D5)
Inundation	n Visible on Aeria	l Imager	y (B7)		Thin Mu	ck Surfac	e (C7)	_		, ,
Sparsely	Vegetated Conca	ve Surfa	ce (B8)		Gauge o	r Well Da	ata (D9)			
Water-Sta	ained Leaves (B9))			Other (E	xplain in	Remarks)		
Field Observ	ations:				_					
Surface wate	•	Yes		No	X	Depth (i	,			
Nater table p		Yes		No	X	Depth (i	,		-	icators of wetland
Saturation pre		Yes	X	No		Depth (i	nches):	surface	hy	drology present? Y
(includes cap										
Describe reco	orded data (strea	m gaug	e, monitori	ng well	l, aerial p	hotos, p	revious ir	nspections), if	available:	
Pomarko:										
Remarks:										

Project/Site Crawford Site	City/0	County:	Chicago/Co	ook :	Sampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Point:	2B
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S: 35, T	:39N, R:13E
Landform (hillslope, terrace, etc.): terrace	се	Local r	elief (concav	e, convex,	none):	convex
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23 I	Datum:	NAD83
Soil Map Unit Name Urban land			NWI C	Classification	on:	None
Are climatic/hydrologic conditions of the site typical for	this time o	f the year?	Y (I	f no, explai	in in remarks)	
Are vegetation , soil , or hydrolo	gy	significantly	/ disturbed?	,	Are "normal circur	mstances"
Are vegetation , soil , or hydrolo	gy	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If neede	ed, explain any an	swers in remarks.)
Hydrophytic vegetation present? N						
Hydric soil present? N		Is the s	ampled area	a within a	wetland?	N
Indicators of wetland hydrology present?		f yes, op	tional wetlan	nd site ID:	Investigated Are	ea 2
Remarks: (Explain alternative procedures here or in a s	senarate re	enort)				
Tremains. (Explain alternative procedures here of in a c	ocparate re	ροιτ.)				
VEGETATION Use scientific names of plants						
VEGETATION Ose scientific flames of plants	Absolute	Dominan	Indicator	Domina	nce Test Worksh	neet .
Tree Stratum (Plot size: 30')		t Species	Staus		of Dominant Specie	
1					OBL, FACW, or FA	
2					Number of Domina	
3				Speci	ies Across all Strat	a: (B)
4					of Dominant Specie	
5				that are C	DBL, FACW, or FA	C: <u>25.00%</u> (A/B)
Condition (Charle street up (Diet sine)	0 :	= Total Cove	r	Daniela		baat
Sapling/Shrub stratum (Plot size: 15') 1 Elaeagnus angustifolia	20	Υ	FACU		nce Index Works Cover of:	neet
2	20	<u>'</u>	1700	OBL spe		1 = 0
3				FACW s		2 = 0
4				FAC spe		3 = 90
5				FACU sp	pecies 90 x	4 = 360
_	20	=Total Cove	r	UPL spe		5 = 0
Herb stratum (Plot size: 5')				Column	totals <u>120</u> (<i>F</i>	· — ` · ·
1 Festuca arundinacea	30	<u>Y</u>	FACU	Prevalen	nce Index = B/A =	3.75
2 Poa pratensis	20	<u>Y</u>	FAC	l ly relacion	hytic Vegetation	In diaptors.
3 Solidago altissima 4 Plantago lanceolata	20 15	<u>Y</u> N	FACU FACU		id test for hydroph	
5 Plantago major	10	N	FAC		ninance test is >50	
6 Melilotus officinalis	5	N	FACU		/alence index is ≤	
7				— Morr	phogical adaptation	ons* (provide
8					oorting data in Rei	
9					arate sheet)	
10					lematic hydrophy	tic vegetation*
Woody vine stratum (Plot size: 30')	100	= Total Cove	r	(exp	iain)	
Woody vine stratum (Plot size: 30')					rs of hydric soil and w resent, unless disturb	vetland hydrology must be
					rophytic	ed of problematic
	0 :	Total Cove	r	vege	etation	
				pres	sent? N	_
Remarks: (Include photo numbers here or on a separat	te sheet)					

SOIL Sampling Point: 2B

Profile Desc	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm t	he absend	e of indicators.)				
Depth	Matrix			dox Feat					·				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textur	re .	Remarks				
0-2	10YR 3/3	100					silt loam mixe	ed with fill	Soils are mixed with gravel fill				
2+	-						Gravel fill		<u> </u>				
۷,							Olavel IIII						
					ļ								
*Timo: C = (Cancaptration D.	Doploti	an PM – Roduce	- Motriy	. MC - M	Inched S	and Crains	**! coatio	D. Poro Lining M - Matrix				
	bil Indicators:	= Debien	on, RM = Reduce	O Manix	, IVIO = IV	laskeu o			n: PL = Pore Lining, M = Matrix ematic Hydric Soils:				
	tisol (A1)		San	dy Glave	ed Matrix	(04)			dox (A16) (LRR K, L, R)				
	tic Epipedon (A2)			idy Gleye idy Redo		(34)			') (LRR K, L)				
	ck Histic (A3)			pped Ma					t or Peat (S3) (LRR K, L, R)				
	lrogen Sulfide (A4	1\		•	ky Minera	ol (E1)			Masses (F12) (LRR K, L, R)				
	atified Layers (A5)	,		•	ed Matrix	` '			rk Surface (TF12)				
	n Muck (A10)	,		oleted Ma		((' <i>-)</i>		(explain in	,				
	oleted Below Dark	Surface			Surface	(F6)		(explain iii	ieliaiks)				
	ck Dark Surface (` ′		ark Surface	` '	*Indicate	are of hydr	ophytic vegetation and weltand				
	ndy Mucky Minera				essions (e present, unless disturbed or				
	lay maony	1 (0.)		OX DOP.	, حت.ت	(10)	11, 010.		problematic				
Destriction													
	Restrictive Layer (if observed):												
	Type: Gravel fill Hydric soil present? N												
Depth (inche	es): 2+				.								
Remarks:													
Gravel fil	ll was encounte	ered at	2 inches in the	soil pro	ofile.								
HYDROLO													
_	drology Indicato												
Primary Indi	cators (minimum	of one is	required; check a	all that a	pply)		<u>Sec</u>	ondary Ind	icators (minimum of two required)				
	Water (A1)				Fauna (B				Soil Cracks (B6)				
	iter Table (A2)		<u> </u>		uatic Plan	. ,	-		Patterns (B10)				
Saturation					n Sulfide				son Water Table (C2)				
	arks (B1)				Rhizosp	heres on	Living Roots		Burrows (C8)				
	nt Deposits (B2)			(C3)	(D - d	. I lanca			n Visible on Aerial Imagery (C9)				
	oosits (B3)				e of Redu				or Stressed Plants (D1)				
	at or Crust (B4)				ron Keau	iction in i	illed Soils		phic Position (D2)				
	osits (B5) on Visible on Aeria	l Imagen	, (R7)	(C6)	ck Surfac	·^ (C7)		- FAC-INEC	itral Test (D5)				
	Vegetated Conca		· · · ·		or Well Da								
	tained Leaves (B9				xplain in	` '	١						
Field Obser	`	,			γριαιτι ιι.	Romana	,	1					
Surface water		Yes	No	Χ	Depth (ii	nchas).							
Water table	•	Yes	No No	$\frac{\lambda}{X}$	Depth (ii			Ind	licators of wetland				
Saturation p	•	Yes	No No	$\frac{\lambda}{X}$	Depth (ii				drology present?				
	pillary fringe)	100			_Dopui (ii	1101100).		,					
		m dalida	e, monitoring well	aprial n	hotos ni	rovious ir	nenections) if a	vailable:					
Describe rec	Corded data (Stree	iiii gauge	s, monitoring went	, acriai p	notos, pi	evious ii	ispections), ii a	valiable.					
Remarks:													

Project/Site Crawford Site	City/C	County:	Chicago/Co	ook Sa	ampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.	•	State:	IL	Sa	ampling Point:	3A
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	n, Township	, Range:	S: 35, T:	39N, R:13E
Landform (hillslope, terrace, etc.): depression	n	Local re	elief (concav	e, convex, n	one):	concave
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23 Da	atum:	NAD83
Soil Map Unit Name Urban land			VWI C	Classification	າ:	None
Are climatic/hydrologic conditions of the site typical for this	s time of	the year?	Y (If	f no, explain	in remarks)	
Are vegetation , soil , or hydrology		significantly	disturbed?	Aı	e "normal circun	nstances"
Are vegetation , soil , or hydrology		naturally pro	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If needed	, explain any ans	swers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present?		Is the sa	ampled area	within a w	etland?	N
Indicators of wetland hydrology present? Y		f yes, opt	tional wetlan	d site ID:	Investigated Are	ea 3
Remarks: (Explain alternative procedures here or in a sepa	arate rer	port.)				
		,				
VEGETATION Use scientific names of plants.						
·	solute	Dominan	Indicator	Dominan	ce Test Worksh	eet
<u>Tree Stratum</u> (Plot size:) %	Cover	t Species	Staus		Dominant Specie	
1				that are OB	SL, FACW, or FAC	C: 1 (A)
2					umber of Domina	
3					s Across all Strata	``´
5					Dominant Specie L. FACW, or FAC	es C: 100.00% (A/B)
	0 =	Total Cover				(,,,,)
Sapling/Shrub stratum (Plot size: 15')				Prevalenc	e Index Worksl	heet
1				Total % C	over of:	
				OBL spec		
3				FACW spe		2 = <u>10</u> 3 = 15
5				FAC spec FACU spe		4 = 0
	0 =	Total Cover		UPL speci		5 = 0
Herb stratum (Plot size: 5')				Column to		
1 Typha angustifolia	75	Υ	OBL	Prevalenc	e Index = B/A =	1.16
2 Phragmites australis	5	N	FACW			
3 Populus deltoides	5	N	FAC		rtic Vegetation I	
4 Scirpus atrovirens	5	N	OBL		test for hydroph	
5 Schoenoplectus tabernaemontani	5	N	OBL		nance test is >50	
6					lence index is ≤3	
8					logical adaptatio Irting data in Rer	
9					ate sheet)	narks or on a
10					ematic hydrophyt	tic vegetation*
	95 =	Total Cover		(expla		3
Woody vine stratum (Plot size: 30')				*Indicators	of hydric soil and we	etland hydrology must be
1				•	sent, unless disturbe	ed or problematic
2				Hydro	phytic ation	
	0 =	Total Cover		prese		
Remarks: (Include photo numbers here or on a separate s	sheet)			•		<u> </u>
Tromaino. (moidde priote manibers nore or on a soparate s	люст					

SOIL Sampling Point: 3A

	•	ibe to th	e depth				indicate	or or confirm t	ne absenc	e of indicators.)
Depth (Inches) Co	Matrix olor (moist)	%	Color	<u>Red</u> (moist)	dox Feat %		Loc**	Textur		Remarks
0+	DIOI (IIIOISI)	76	Color	(IIIOISI)	76	Type*	LUC	Rock	E	Soils are mixed with rock
0+								ROCK		Soils are mixed with rock
	5			<u> </u>		140 1			**1 .	D. D. I M. M.
Type: C = Conc		= Depleti	on, RM =	= Reduce	ed Matrix	I, MS = N	lasked S			n: PL = Pore Lining, M = Matri
Hydric Soil Inc				0 -			(0.4)			ematic Hydric Soils:
Histisol	. ,					ed Matrix	(S4)			dox (A16) (LRR K, L, R)
	pipedon (A2)				dy Redo) (LRR K, L)
Black Hi	` ,				pped Ma	` '			-	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4	•			•	ky Minera	` '		-	Masses (F12) (LRR K, L, R)
	d Layers (A5))				ed Matrix	. ,			k Surface (TF12)
	ıck (A10)		(4.4.4)			atrix (F3)		Other	(explain in	remarks)
	d Below Dark		e (A11)			Surface	. ,			
	ark Surface (ark Surfa				ophytic vegetation and weltand
Sandy M	lucky Minera	ıl (S1)		Red	lox Depr	essions ((F8)	hydrolo		e present, unless disturbed or
										problematic
Restrictive Laye	er (if observe	ed):								
Гуре: Rock								Hydric s	oil present	? N
Depth (inches):	0+					•				
Remarks:						-				
				41-	!!					
Rock fill was	encounter	eu at tr	ie suria	ce or th	e son p	ronie.				
HYDROLOGY	,									
Wetland Hydrol		ors:								
Primary Indicator			required	l· chack	all that a	nnly)		Soc	ondanı İndi	cators (minimum of two requir
X Surface Wate	•	OI OIIE IS	required	i, CHECK		рріу) Fauna (B	12)	<u>3ec</u>		Soil Cracks (B6)
High Water T	` '					rauna (b uatic Plar	,			Patterns (B10)
X Saturation (A	, ,						Odor (C1	_		on Water Table (C2)
Water Marks	,							Living Roots		Burrows (C8)
Sediment De	` '				(C3)	i Kilizosp	ilicies oii			n Visible on Aerial Imagery (C9)
Drift Deposits						e of Redu	uced Iron	(C4)		or Stressed Plants (D1)
Algal Mat or (` '									hic Position (D2)
Iron Deposits					(C6)	101111000				tral Test (D5)
Inundation Vi	` '	al Imager	v (B7)			ck Surfac	e (C7)	<u> </u>		1141 1001 (20)
Sparsely Veg					-	or Well Da	, ,			
Water-Staine			(/				Remarks)		
—– Field Observation	•	,			. `	<u> </u>		,	1	
Surface water pro		Yes	Х	No		Depth (i	nches):			
Water table pres		Yes		No	X	Depth (i	,		Ind	icators of wetland
Saturation preser		Yes	X	No		Depth (i		surface		drology present?
includes capillar				•		- ' `	,			
Describe recorde		am dalidi	e monito	ring well	aerial r	hotos n	revious ir	enections) if a	vailable.	
Describe recorde	a data (Stree	airi gaagi	c, mornio	ing wen	, acriai p	7110103, pi	icvious ii	ispections), ii a	valiable.	
Remarks:										
-										

Project/Site Crawford Site	City/0	County:	Chicago/Co	ook	Sampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Point:	3B
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S: 35,	Γ:39N, R:13E
Landform (hillslope, terrace, etc.): terrace	се	Local r	elief (concav	e, convex	, none):	convex
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	NAD83
Soil Map Unit Name Urban land			NWI (Classificati	ion:	None
Are climatic/hydrologic conditions of the site typical for	this time o	f the year?	Y (I	f no, expla	nin in remarks)	
Are vegetation , soil , or hydrolo	gy	significantly	/ disturbed?		Are "normal circu	ımstances"
Are vegetation , soil , or hydrolo	gy	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If need	ed, explain any a	nswers in remarks.)
Hydrophytic vegetation present? N						
Hydric soil present? N		Is the s	ampled area	a within a	wetland?	N
Indicators of wetland hydrology present? N		f yes, op	tional wetlan	nd site ID:	Investigated A	rea 3
Remarks: (Explain alternative procedures here or in a s	enarate re	enort)		•		
Themains. (Explain alternative procedures here of in a s	separate re	port.)				
VECETATION Lies esigntific names of plants						
VEGETATION Use scientific names of plants	Absolute	Dominan	Indicator	Domina	nce Test Works	hoot
		t Species	Staus		of Dominant Spec	
1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				OBL, FACW, or FA	
2					Number of Domina	
3				Spec	ies Across all Stra	ta: (B)
4					of Dominant Spec	
5				that are 0	OBL, FACW, or FA	AC: 0.00% (A/B)
	0	=Total Cove	r			
Sapling/Shrub stratum (Plot size: 15') 1 Elaeagnus angustifolia	20	Υ	FACU		nce Index Works Cover of:	sheet
1 Elaeagrius angustirolia 2			FACU	OBL spe		(1 = 0
-				FACW s		(2 = 40
4				FAC spe		3 = 0
5				FACU s	pecies 100	400
	20	=Total Cove		UPL spe		(5 = 0
Herb stratum (Plot size: 5')				Column	totals 120 ((A) <u>440</u> (B)
1 Melilotus officinalis	50	<u> </u>	FACU	Prevale	nce Index = B/A =	3.67
2 Solidago altissima	20	<u>Y</u>	FACU			
3 Phalaris arundinacea 4 Phragmites australis	10	N	FACW FACW		hytic Vegetation bid test for hydrop	
5 Plantago lanceolata	10	N	FACU		ninance test is >5	, ,
6	10		17100		valence index is ≤	
7				 Mor	phogical adaptati	ons* (provide
8					porting data in Re	
9				sepa	arate sheet)	
10					blematic hydrophy	ytic vegetation*
- Colored Colo	100	=Total Cove	r	(exp	olain)	
Woody vine stratum (Plot size: 30')					•	wetland hydrology must be
1 2					oresent, unless distur Irophytic	bed or problematic
	0	= Total Cove		-	etation	
		. 5.5 55701		pres	sent? N	
Remarks: (Include photo numbers here or on a separat	e sheet)					

SOIL Sampling Point: 3B

Profile Desc	cription: (Descri	be to th	e depth needed	to docu	ment the	indicat	or or confirm the abser	nce of indicators.)
Depth	<u>Matrix</u>		Red	dox Feat	<u>ures</u>			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0+							Rock	
					l			
	Concentration, D =	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S		ion: PL = Pore Lining, M = Matrix
_	il Indicators:		_					olematic Hydric Soils:
	isol (A1)				ed Matrix	(S4)		edox (A16) (LRR K, L, R)
	ic Epipedon (A2)			dy Redo			Dark Surface (
	ck Histic (A3)			oped Ma	. ,			eat or Peat (S3) (LRR K, L, R)
Hyd	rogen Sulfide (A4	-)	Loa	my Mucł	ky Minera	al (F1)	Iron-Manganes	e Masses (F12) (LRR K, L, R)
Stra	itified Layers (A5)		Loa	my Gley	ed Matrix	(F2)	Very Shallow D	ark Surface (TF12)
2 cr	n Muck (A10)		Dep	leted Ma	atrix (F3)		Other (explain	n remarks)
Dep	leted Below Dark	Surface	(A11) Rec	lox Dark	Surface	(F6)		
	k Dark Surface (leted Da	ırk Surfa	ce (F7)	*Indicators of hy	drophytic vegetation and weltand
San	dy Mucky Minera	I (S1)	Rec	lox Depr	essions ((F8)		be present, unless disturbed or
		, ,				,	,	problematic
Postrictivo	Layer (if observe	٠٩/٠				1		•
		eu).					Hudria agil proce	.m42 N
	ock fill				•		Hydric soil prese	ent? N
Depth (inche	es): <u>0+</u>				-			
Remarks:								
Rock fill	was encounter	ed at th	e surface.					
HYDROLO	OGY							
	drology Indicato	rs:						
_	cators (minimum		roquired: abook	all that a	nnlu)		Cocondon Ir	dicators (minimum of two required)
-		or orie is	required, check			40)	·	ndicators (minimum of two required)
	Water (A1)				Fauna (B			e Soil Cracks (B6)
	ter Table (A2)				uatic Plar	` ,		ge Patterns (B10)
Saturatio						Odor (C1	· ·	ason Water Table (C2)
	arks (B1)				Rnizosp	neres on		h Burrows (C8)
	t Deposits (B2)			(C3)	t D l			tion Visible on Aerial Imagery (C9)
	osits (B3)					uced Iron		d or Stressed Plants (D1)
	t or Crust (B4)				ron Reau	iction in I		orphic Position (D2)
	osits (B5)		. (DZ)	(C6)	-1. 0(- (07)	FAC-N	eutral Test (D5)
	on Visible on Aeria				ck Surfac			
	Vegetated Conca				r Well Da		`	
	tained Leaves (B9)		Other (E	xpiain in	Remarks)	
Field Obser								
Surface water	-	Yes	No	X	Depth (i			
Water table		Yes	No	Х	Depth (i	,		ndicators of wetland
Saturation p		Yes	No No	X	Depth (i	nches):		nydrology present? N
	pillary fringe)							
Describe red	orded data (strea	ım gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:	
Remarks:		· -		_	_	_		·

Project/Site Crawford Site	City/0	County:	Chicago/Co	ook	Sampling Date	: 5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Point	: 4A
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S: 35	, T:39N, R:13E
Landform (hillslope, terrace, etc.): depress	sion	Local r	elief (concav	e, convex	, none):	concave
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	NAD83
Soil Map Unit Name Urban land			VWI (Classificat	tion:	None
Are climatic/hydrologic conditions of the site typical for	this time o	f the year?	Y (I	f no, expla	ain in remarks)	
Are vegetation , soil , or hydrolo	gy	significantly	/ disturbed?		Are "normal cir	cumstances"
Are vegetation , soil , or hydrolo	gy	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If need	led, explain any	answers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? N		Is the s	ampled area	a within a	wetland?	N
Indicators of wetland hydrology present? Y		f yes, op	tional wetlan	nd site ID:	Investigated	Area 4
Remarks: (Explain alternative procedures here or in a s	enarate re	anort)				
Tromano. (Explain alternative procedures here of in a c	oparato re	ροιι.,				
VEGETATION Use scientific names of plants						
	Absolute	Dominan	Indicator	Domina	ance Test Worl	
		t Species	Staus		of Dominant Spe	
1		·			OBL, FACW, or	
2				Total	Number of Dom	inant
3				Spec	cies Across all S	trata: 1 (B)
4					of Dominant Spe	
5		T. () O		that are	OBL, FACW, or	FAC: 100.00% (A/B)
Sapling/Shrub stratum (Plot size: 15')	0 :	= Total Cove	ſ	Provole	ence Index Wor	rkshoot
Saping/Strub straturi (Flot size					Cover of:	KSHEEL
				OBL sp		x 1 = 0
3				-		x 2 = 200
4				FAC sp	ecies 0	x 3 = 0
5				FACU s	· —	x 4 = 0
	0 :	= Total Cove	r	UPL sp		x = 0
Herb stratum (Plot size: 5')				Column		(A) <u>200</u> (B)
1 Phragmites australis	100	<u>Y</u>	FACW	Prevale	ence Index = B/A	A = 2.00
				Hydron	hytic Vegetation	on Indicators:
-						ophytic vegetation
5					minance test is:	
6				X Pre	valence index is	s ≤3.0*
7				— Moi	rphogical adapta	ations* (provide
8				-		Remarks or on a
9					parate sheet)	
10	100	Total Causa				phytic vegetation*
Woody vine stratum (Plot size: 30')	100	= Total Cove			plain)	
1					•	d wetland hydrology must be turbed or problematic
					drophytic	
	0 :	= Total Cove		_	getation	
				pre	esent?	Υ
Remarks: (Include photo numbers here or on a separat	e sheet)					

SOIL Sampling Point: 4A

	•	ibe to th	e depth				indicate	or or confirm t	ne absenc	e of indicators.)
Depth (Inches) Co	Matrix olor (moist)	%	Color	<u>Red</u> (moist)	dox Feat %		Loc**	Textur		Remarks
0+	DIOI (IIIOISI)	76	Color	(IIIOISI)	76	Type*	LUC	Rock	E	Soils are mixed with rock
0+								ROCK		Soils are mixed with rock
	5			<u> </u>		140 1			**1 .	D. D. I M. M.
Type: C = Conc		= Depleti	on, RM =	= Reduce	ed Matrix	I, MS = N	lasked S			n: PL = Pore Lining, M = Matri
Hydric Soil Inc				0 -			(0.4)			ematic Hydric Soils:
Histisol	. ,					ed Matrix	(S4)			dox (A16) (LRR K, L, R)
	pipedon (A2)				dy Redo) (LRR K, L)
Black Hi	` ,				pped Ma	` '			-	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4	•			•	ky Minera	` '		-	Masses (F12) (LRR K, L, R)
	d Layers (A5))				ed Matrix	. ,			k Surface (TF12)
	ıck (A10)		(4.4.4)			atrix (F3)		Other	(explain in	remarks)
	d Below Dark		e (A11)			Surface	. ,			
	ark Surface (ark Surfa				ophytic vegetation and weltand
Sandy M	lucky Minera	ıl (S1)		Red	lox Depr	essions ((F8)	hydrolo		e present, unless disturbed or
										problematic
Restrictive Laye	er (if observe	ed):								
Гуре: Rock								Hydric s	oil present	? N
Depth (inches):	0+					•				
Remarks:						-				
				41-	!!					
Rock fill was	encounter	eu at tr	ie suria	ce or th	e son p	ronie.				
HYDROLOGY	,									
Wetland Hydrol		ors:								
Primary Indicator			required	l· chack	all that a	nnly)		Soc	ondanı İndi	cators (minimum of two requir
X Surface Wate	•	OI OIIE IS	required	i, CHECK		рріу) Fauna (B	12)	<u>3ec</u>		Soil Cracks (B6)
High Water T	` '					rauna (b uatic Plar	,			Patterns (B10)
X Saturation (A	, ,						Odor (C1	_		on Water Table (C2)
Water Marks	,							Living Roots		Burrows (C8)
Sediment De	` '				(C3)	i Kilizosp	ilicies oii			n Visible on Aerial Imagery (C9)
Drift Deposits						e of Redu	uced Iron	(C4)		or Stressed Plants (D1)
Algal Mat or (` '									hic Position (D2)
Iron Deposits					(C6)	101111000				tral Test (D5)
Inundation Vi	` '	al Imager	v (B7)			ck Surfac	e (C7)	<u> </u>		1141 1001 (20)
Sparsely Veg					-	or Well Da	, ,			
Water-Staine			(/				Remarks)		
—– Field Observation	•	,			. `	<u> </u>		,	1	
Surface water pro		Yes	Х	No		Depth (i	nches):			
Water table pres		Yes		No	X	Depth (i	,		Ind	icators of wetland
Saturation preser		Yes	X	No		Depth (i		surface		drology present?
includes capillar				•		- ' `	,			
Describe recorde		am dalidi	e monito	ring well	aerial r	hotos n	revious ir	enections) if a	vailable.	
Describe recorde	a data (Stree	airi gaagi	c, mornio	ing wen	, acriai p	7110103, pi	icvious ii	ispections), ii a	valiable.	
Remarks:										
-										

Project/Site Crawford Site C	ity/County:	Chicago/Cook	Sampling Date:	5/31/17				
Applicant/Owner: SPACECO, Inc.	State:	IL	Sampling Point:	4B				
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani	Secti	on, Township, Range	e: S: 35, T	:39N, R:13E				
Landform (hillslope, terrace, etc.): terrace	Local r	elief (concave, conv	ex, none):	convex				
Slope (%): 0 Lat: 41.830182	Long:	-87.721523	Datum:	NAD83				
Soil Map Unit Name Urban land		NWI Classific	ation:	None				
Are climatic/hydrologic conditions of the site typical for this tim	ne of the year?	Y (If no, ex	olain in remarks)					
Are vegetation , soil , or hydrology		y disturbed?	Are "normal circur	mstances"				
Are vegetation , soil , or hydrology	<u> </u>	7 To Horman Groundlanded						
SUMMARY OF FINDINGS			eded, explain any an	swers in remarks.)				
Hydrophytic vegetation present? N		,	, , ,	,				
Hydric soil present?	Is the s	sampled area within	a wetland?	N				
Indicators of wetland hydrology present?		otional wetland site II	_	<u> </u>				
Remarks: (Explain alternative procedures here or in a separat	e report.)							
VEGETATION Use scientific names of plants.								
Absolu	ite Dominan	Indicator Domi	nance Test Worksh	eet				
Tree Stratum (Plot size: 30') % Cov		indicator	er of Dominant Specie					
1			e OBL, FACW, or FA					
2		Tot	al Number of Domina	nt				
3		Sp	ecies Across all Strat	a: 0 (B)				
4			nt of Dominant Specie					
5			e OBL, FACW, or FA	C: 0.00% (A/B)				
Sapling/Shrub stratum (Plot size: 15')	=Total Cove		llence Index Works	hoot				
Sapling/Shrub stratum (Plot size: 15')			% Cover of:	neet				
				1 = 0				
3				2 = 0				
4			· -	3 = 0				
5		FACL	species 0 x	4 = 0				
0	= Total Cove		·	5 = 0				
Herb stratum (Plot size: 5')		Colun	nn totals 0 (A	A) 0 (B)				
1		Preva	lence Index = B/A =					
2								
3			phytic Vegetation					
4			apid test for hydroph ominance test is >50	-				
6			revalence index is ≤					
7								
8			orphogical adaptation upporting data in Rei					
9			eparate sheet)					
10			roblematic hydrophy	tic vegetation*				
0	= Total Cove		explain)	-				
Woody vine stratum (Plot size: 30')		*Indic	ators of hydric soil and w	etland hydrology must be				
1			present, unless disturb	ed or problematic				
2			ydrophytic					
0	= Total Cove	1	egetation resent? N					
Remarks: (Include photo numbers here or on a separate shee	t)			_				
Sample point exists on bare ground.	·)							
Sample point exists on pare ground.								

SOIL Sampling Point: 4B

Profile Desc	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)
Depth	Matrix		Rec	dox Featu	ures			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0+				1	1		Rock	
-					 			
					 			
					<u> </u>			
*Tymo: C = C	Cancaptration D.	Doploti	an PM – Roduce	-d Motrix	N48 - N	Inched S	and Craina **Locatio	Poro Lining M – Matrix
	oncentration, D =	= Debieri	on, RM = Reduce	o Mana	, IVIS = IV	laskeu o		on: PL = Pore Lining, M = Matrix lematic Hydric Soils:
_			San	du Clave	ad Matrix	(01)		<u> </u>
	tisol (A1)				ed Matrix	(54)	Dark Surface (S	edox (A16) (LRR K, L, R)
	tic Epipedon (A2)			idy Redo				at or Peat (S3) (LRR K, L, R)
	ck Histic (A3) Irogen Sulfide (A4	1\		pped Ma	٠,	SI (⊑1)		Masses (F12) (LRR K, L, R)
	atified Layers (A5)			-	ky Minera ed Matrix	. ,		ark Surface (TF12)
	n Muck (A10)	,		oleted Ma		((E)	Other (explain in	
	oleted Below Dark	Surface			Surface	(E6)	Other (explain ii	i lelliaiks)
	ck Dark Surface (· · · · · · · · · · · · · · · · · · ·		ark Surface	. ,	*Indicators of hyd	restation and woltand
	ndy Mucky Minera				essions (rophytic vegetation and weltand be present, unless disturbed or
	uy wuoky wiirora	1 (01)		iox Dop.	53310110 ((10)	Tiyurology muse s	problematic
	- "- "							problematio
	Layer (if observe	∌d):			İ			
	ock fill				<u>.</u>		Hydric soil preser	nt? N
Depth (inche	es): <u>0+</u>				<u>-</u>			
Remarks:								
Rock fill	was encounter	ed at th	e surface.					
HYDROLO	OGY							
Wetland Hy	drology Indicato	rs:						
Primary India	cators (minimum	of one is	required; check a	all t <u>hat a</u>	<u>(y</u> lqq		Secondary Inc	dicators (minimum of two required)
-	Water (A1)		•		Fauna (B	13)		Soil Cracks (B6)
	iter Table (A2)				uatic Plar			e Patterns (B10)
Saturation	` '				n Sulfide	. ,		son Water Table (C2)
	arks (B1)						Living Roots Crayfish	Burrows (C8)
	nt Deposits (B2)			(C3)				on Visible on Aerial Imagery (C9)
	oosits (B3)		<u> </u>		e of Redu		` '	or Stressed Plants (D1)
	at or Crust (B4)				ron Redu	iction in T		phic Position (D2)
	osits (B5)			(C6)		·\	FAC-Ne	utral Test (D5)
	on Visible on Aeria				ck Surfac			
	Vegetated Conca		ce (B8)		or Well Da		`	
	tained Leaves (B9))		Other (E	xplain in	Remarks)	
Field Obser		_		_		-		
Surface water	•	Yes	No No	X	Depth (i	,		dississe of westland
Water table	•	Yes	No No	X	Depth (i			dicators of wetland
Saturation p	resent? pillary fringe)	Yes	No	X	Depth (i	nches).	 "	ydrology present? N
			: :-::::::::::::::::::::::::::::::::::		1 -t n		······································	
Describe rec	orded data (strea	ım gauge	e, monitoring weii	, aeriai p	hotos, þi	revious ii	nspections), if available:	
Remarks:								
Nomano.								

Project/Site Crawford Site	City/0	County:	Chicago/Co	ook	Sampling Date:	5/31/17
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Point:	5A
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section	on, Township	o, Range:	S: 35, 7	Γ:39N, R:13E
Landform (hillslope, terrace, etc.): depress	sion	Local r	elief (concav	e, convex	, none):	concave
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	NAD83
Soil Map Unit Name Urban land			NWI (Classificat	ion:	None
Are climatic/hydrologic conditions of the site typical for	this time o	f the year?	Y (I	f no, expla	ain in remarks)	
Are vegetation , soil , or hydrolo	ogy	significantly	/ disturbed?		Are "normal circu	ımstances"
Are vegetation , soil , or hydrolo	ogy	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If need	ed, explain any ar	nswers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? N		Is the s	ampled area	a within a	wetland?	N
Indicators of wetland hydrology present? Y		f yes, op	tional wetlan	nd site ID:	Investigated Ar	rea 5
Remarks: (Explain alternative procedures here or in a s	senarate re	anort)		•		
Tremains. (Explain alternative procedures here of in a c	separate re	ροιτ.)				
VEGETATION Use scientific names of plants						
VEGETATION Ose scientific flames of plants	Absolute	Dominan	Indicator	Domina	ance Test Works	hoot
<u>Tree Stratum</u> (Plot size: 30')		t Species	Staus		of Dominant Speci	
1					OBL, FACW, or FA	
2					Number of Domina	``
3				Spec	cies Across all Stra	ta:1 (B)
4					of Dominant Speci	
5				that are (OBL, FACW, or FA	AC: 100.00% (A/B)
Conting/Charte of the true (Diet size) 451	0	= Total Cove	ſ	Dravala	maa Inday Mark	-ht
Sapling/Shrub stratum (Plot size: 15')					ence Index Works Cover of:	sneet
				OBL spe		(1 = 15
3				FACW		
4				FAC spe	ecies 0 x	3 = 0
5				FACU s	species 0 x	(4 = 0
	0	= Total Cove	r	UPL spe		(5 = 0
Herb stratum (Plot size: 5')				Column		A) <u>165</u> (B)
1 Phragmites australis	75	<u>Y</u>	FACW	Prevale	nce Index = B/A =	1.83
2 Typha angustifolia 3 Scirpus atrovirens	10 5	<u>N</u>	OBL OBL	Lludron	hytic Vegetation	Indicators
3 Scirpus atrovirens	<u> </u>	IN	OBL		oid test for hydrop	
5					ninance test is >5	-
6				l ——	valence index is ≤	
7				— Mor	rphogical adaptation	ons* (provide
8					porting data in Re	"
9				sep	arate sheet)	
10		T. () O			blematic hydrophy	ytic vegetation*
Woody vine stratum (Plot size: 30')	90	= Total Cove	ſ	— (ext	olain)	
1					ors of hydric soil and v present, unless disturl	wetland hydrology must be
					drophytic	bed of problematic
	0	= Total Cove		_	etation	
				pre	sent? Y	
Remarks: (Include photo numbers here or on a separate	te sheet)					

SOIL Sampling Point: 5A

Profile Descr							01 		<u> </u>
Depth	<u>Matrix</u>			edox Feat					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textur	re	Remarks
0+							Rock		Soils are mixed with rock
*Type: C = Co	oncentration, D =	- Denleti	on RM – Redu	ad Matrix	MS - N	lackad S	and Grains	**Location	n: PL = Pore Lining, M = Matrix
	I Indicators:	- Depieti	on, raw = raedu	Jeu Matrix	i, IVIO – IV	naskeu c			ematic Hydric Soils:
-	sol (A1)		9,	andy Gley	ad Matrix	(94)			dox (A16) (LRR K, L, R)
						(34)			(LRR K, L)
	Epipedon (A2)			andy Redo					
	K Histic (A3)	4\		ripped Ma	, ,	-1 (54)			or Peat (S3) (LRR K, L, R)
	ogen Sulfide (A4			amy Mucl	-	. ,			Masses (F12) (LRR K, L, R)
	ified Layers (A5))		amy Gley					k Surface (TF12)
	Muck (A10)	0 (epleted Ma	, ,		Otner	(explain in	remarks)
	eted Below Dark		· · · —	edox Dark		. ,			
	Dark Surface (,		epleted Da					ophytic vegetation and weltand
Sand	ly Mucky Minera	ii (S1)	R	edox Depr	essions	(F8)	hydrolo		e present, unless disturbed or
									problematic
Restrictive L	ayer (if observe	ed):							
Tuno: Do	ck						Hydric s	oil present	t? N
Type. Ro									
	s): 0+				=				
Depth (inches	s): <u>0+</u>				- -				
Depth (inches		1 44			-				
Depth (inches Remarks:	s): 0+ vas encounter	ed at th	e surface of t	he soil p	rofile.				
Depth (inches Remarks:		ed at th	e surface of t	he soil p	rofile.				
Depth (inches Remarks:		ed at th	e surface of t	he soil p	rofile.				
Depth (inches Remarks: Rock fill w	/as encounter	ed at th	e surface of t	he soil p	rofile.				
Depth (inches Remarks: Rock fill w	/as encounter		e surface of t	he soil p	rofile.				
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd	vas encounter GY rology Indicato	ors:							
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica	GY Irology Indicato	ors:		c all that a	pply)		<u>Sec</u>		icators (minimum of two requir
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W	GY rology Indicators (minimum Vater (A1)	ors:		<u>α all that a</u>	<u>pply)</u> Fauna (B		Sec	Surface S	Soil Cracks (B6)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate	GY rology Indicatorators (minimum Vater (A1) er Table (A2)	ors:		<all _aquatic="" _true="" a="" aq<="" td="" that=""><td><u>pply)</u> Fauna (B uatic Plar</td><td>nts (B14)</td><td>_</td><td>Surface S Drainage</td><td>Soil Cracks (B6) Patterns (B10)</td></all>	<u>pply)</u> Fauna (B uatic Plar	nts (B14)	_	Surface S Drainage	Soil Cracks (B6) Patterns (B10)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate X Saturation	GY rology Indicatorators (minimum Vater (A1) er Table (A2) in (A3)	ors:		<all _aquatic="" _hydroge<="" _true="" a="" aq="" td="" that=""><td><u>pply)</u> Fauna (B uatic Plar en Sulfide</td><td>nts (B14) Odor (C</td><td>1)</td><td>Surface S Drainage Dry-Seas</td><td>Soil Cracks (B6) Patterns (B10) on Water Table (C2)</td></all>	<u>pply)</u> Fauna (B uatic Plar en Sulfide	nts (B14) Odor (C	1)	Surface S Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10) on Water Table (C2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate X Saturation Water Ma	GY Irology Indicator (minimum Vater (A1) er Table (A2) in (A3) irks (B1)	ors:		c all that a Aquatic True Aq Hydroge Oxidizec	<u>pply)</u> Fauna (B uatic Plar en Sulfide	nts (B14) Odor (C	_	Surface S Drainage Dry-Seas Crayfish	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate X Saturation Water Ma Sediment	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2)	ors:		c all that a Aquatic True Aq Hydroge Oxidizec (C3)	<u>pply)</u> Fauna (B uatic Plar en Sulfide d Rhizosp	nts (B14) Odor (Coheres on	I) Living Roots	Surface S Drainage Dry-Seas Crayfish Saturatio	Goil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate X Saturation Water Ma Sediment Drift Depo	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) osits (B3)	ors:		c all that a Aquatic True Aq Hydroge Oxidizec (C3)	<u>pply)</u> Fauna (B uatic Plar en Sulfide	nts (B14) Odor (Coheres on	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of	Goil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Wate X Saturation Water Ma Sediment Drift Depo	GY Irology Indicator ators (minimum Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4)	ors:		Aquatic True Aq Hydroge Oxidized (C3) Presend	pply) Fauna (B uatic Plar en Sulfide d Rhizosp	nts (B14) Odor (Coheres on uced Iron	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5)	ors: of one is	required; checl	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6)	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu	onts (B14) Odor (Coheres on uced Iron uction in T	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) usits (B5) n Visible on Aeria	ors: of one is	required; check	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6)	pply) Fauna (B uatic Plar en Sulfide d Rhizosp	onts (B14) Odor (Coheres on uced Iron uction in T	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely V	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5) n Visible on Aeria Vegetated Conca	ors: of one is al Imager ave Surfa	required; check	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu ck Surfac	onts (B14) Odor (Coheres on uced Iron uction in The (C7) ata (D9)	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely V	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) usits (B5) n Visible on Aeria	ors: of one is al Imager ave Surfa	required; check	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu	onts (B14) Odor (Coheres on uced Iron uction in The (C7) ata (D9)	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely W	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aeria Vegetated Conca	ors: of one is al Imager ave Surfa	required; check	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu ck Surfac	onts (B14) Odor (Coheres on uced Iron uction in The (C7) ata (D9)	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely W Water-Sta Field Observ	GY rology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aeria Vegetated Conca	ors: of one is al Imager ave Surfa	required; check	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu ck Surfac	nts (B14) Odor (Conheres on uced Iron uction in The (C7) ata (D9) Remarks	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted C Geomorp	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely W Water-Sta Field Observ Surface water	GY rology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) sits (B3) or Crust (B4) sists (B5) n Visible on Aeria Vegetated Concar ained Leaves (B9 rations: r present?	ors: of one is al Imager	y (B7)	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu fron Redu ck Surfac or Well Da explain in	nts (B14) Odor (Conheres on uced Iron uction in The (C7) ata (D9) Remarks inches):	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of FAC-Neu	Goil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely W Water-Sta Field Observ Surface water Water table p	GY rology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aerial Vegetated Concar ained Leaves (B9 rations: r present? resent?	ors: of one is al Imagen ive Surface)	y (B7) ce (B8) X No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (Buatic Plaren Sulfide d Rhizospee of Redulation Reduction Reduction Well Dataset	nts (B14) Odor (Conheres on uced Iron uction in The (C7) ata (D9) Remarks inches):	Living Roots (C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aeria Vegetated Concar ained Leaves (B9 rations: r present? resent?	ors: of one is al Imagen ive Surface) Yes Yes	y (B7) ce (B8) X No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C	pply) Fauna (Buatic Plaren Sulfide d Rhizospee of Reduction Reduct	nts (B14) Odor (Conheres on uced Iron uction in The (C7) ata (D9) Remarks inches):	Living Roots(C4)	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre (includes capi	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) or Crust (B4) esits (B5) n Visible on Aerial Vegetated Concalained Leaves (B9) rations: r present? resent? esent? elilary fringe)	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	
HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre (includes capi	GY Irology Indicatorators (minimum Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aeria Vegetated Concar ained Leaves (B9 rations: r present? resent?	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	
Depth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre (includes capi	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) or Crust (B4) esits (B5) n Visible on Aerial Vegetated Concalained Leaves (B9) rations: r present? resent? esent? elilary fringe)	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	
Pepth (inches Remarks: Rock fill w HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre (includes capi	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) or Crust (B4) esits (B5) n Visible on Aerial Vegetated Concalained Leaves (B9) rations: r present? resent? esent? elilary fringe)	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	
HYDROLO Wetland Hyd Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Water table p Saturation pre (includes capi	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) or Crust (B4) esits (B5) n Visible on Aerial Vegetated Concalained Leaves (B9) rations: r present? resent? esent? elilary fringe)	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	
Primary Indica X Surface W High Water X Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water-Sta Field Observ Surface water Vater table p Saturation pre includes capi Describe reco	GY Irology Indicators (minimum Vater (A1) er Table (A2) n (A3) or Crust (B4) esits (B5) n Visible on Aerial Vegetated Concalained Leaves (B9) rations: r present? resent? esent? elilary fringe)	of one is al Imager ave Surface Yes Yes Yes	y (B7) ce (B8) X No No	c all that a Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge C Other (E	pply) Fauna (Buatic Plaren Sulfided Reduck Surfacer Well Data Explain in Depth (in Dep	nts (B14) Odor (Control of the control Living Roots (C4) Tilled Soils surface	Surface S Drainage Dry-Seas Crayfish Saturatio Stunted c Geomorp FAC-Neu	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) ttral Test (D5)	

Project/Site Crawford Site	City/0	City/County: Chicago/C			Cook Sampling Date: 5/31/17		
Applicant/Owner: SPACECO, Inc.		State:	IL		Sampling Poi	nt: 5B	
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section, Township, Range: S: 35, T:39N, R:13E					
Landform (hillslope, terrace, etc.): terrace	е	Local relief (concave, convex, none): convex					
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	NAD83	
Soil Map Unit Name Urban land			NMI C	Classificat	ion:	None	
Are climatic/hydrologic conditions of the site typical for t	his time o	f the year?	Y (I	f no, expla	ain in remarks	5)	
Are vegetation , soil , or hydrolog	Э У	significantly	disturbed?		Are "normal o	circumstances"	
Are vegetation , soil , or hydrolog	gy	naturally pro	oblematic?			present? Yes	
SUMMARY OF FINDINGS				(If need	ed, explain ar	ny answers in remarks.)	
Hydrophytic vegetation present? N							
Hydric soil present? N		Is the sa	ampled area	a within a	wetland?	N	
Indicators of wetland hydrology present?		f yes, op	tional wetlan	d site ID:	Investigate	d Area 5	
Remarks: (Explain alternative procedures here or in a se	enarate re	enort)					_
Tremarks. (Explain alternative procedures here of in a si	cparate re	port.)					
VEGETATION Use scientific names of plants							
	Absolute	Dominan	Indicator	Domina	ance Test Wo		
		t Species	Staus		of Dominant S		
1					OBL, FACW, c	•	
2				Total	Number of Do		
3				Spec	cies Across all	Strata: 3 (B)	
4					of Dominant S	•	
5				that are (OBL, FACW, c	or FAC: 0.00% (A/B)	3)
Conline (Chrish etratum (Diet eine) 451	0	=Total Cover	•	Drevele	maa Inday W	a wheala a a t	
Sapling/Shrub stratum (Plot size: 15')					ence Index W Cover of:	orksneet	
				OBL sp		x 1 = 0	
3				FACW			
4				FAC sp	ecies 0	x 3 = 0	
5				FACU s	species 80	x 4 = 320	
	0 :	=Total Cover	•	UPL spe			
Herb stratum (Plot size: 5')				Column			
1 Cirsium vulgare	40	<u>Y</u>	FACU	Prevale	nce Index = B	3/A = 3.78	
2 Melilotus officinalis	20	<u>Y</u> Y	FACU FACU	l luduan	hutia Vanata	tion Indicators.	
3 Solidago altissima 4 Phragmites australis	10		FACW		-	tion Indicators: drophytic vegetation	
5	10		171011		ninance test is	· · ·	
6					valence index		
7				— Mor	rphogical adar	otations* (provide	
8						n Remarks or on a	
9				sep	arate sheet)		
10					-	ophytic vegetation*	
Woody vine stratum (Plot size: 30')	90	=Total Cover		(exp	olain)		
Woody vine stratum (Plot size: 30')					-	and wetland hydrology must b disturbed or problematic	эе
					drophytic	isturbed or problematic	
	0 :	= Total Cover			etation		
				pre	sent?	N	
Remarks: (Include photo numbers here or on a separate	e sheet)						

SOIL Sampling Point: 5B

Profile Desc	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicat	or or confirm the absen	ce of indicators.)		
Depth <u>Matrix</u>			Red	dox Feat	<u>ures</u>					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-8							Coal			
8+							Fill			
01							1 111			
*Typo: C = C	Concentration, D =	- Donloti	on PM – Poduce	d Matrix	MS - N	lackad S	and Grains **Location	on: PL = Pore Lining, M = Matrix		
	il Indicators:	= Depleti	on, Rivi = Reduce	u Maliix	, IVIS = IV	iaskeu S		lematic Hydric Soils:		
_	isol (A1)		San	dy Glave	ed Matrix	(\$4)		edox (A16) (LRR K, L, R)		
	ic Epipedon (A2)			dy Redo		(04)	Dark Surface (S			
	ck Histic (A3)			oped Ma				at or Peat (S3) (LRR K, L, R)		
	rogen Sulfide (A4	1)			ky Minera	al (F1)	•	Masses (F12) (LRR K, L, R)		
	itified Layers (A5)			•	ed Matrix	. ,		ark Surface (TF12)		
	n Muck (A10)	,		leted Ma		((-)	Other (explain in			
	leted Below Dark	Surface			Surface	(F6)		. remaine,		
	ck Dark Surface (` '		rk Surfa	. ,	*Indicators of hyd	rophytic vegetation and weltand		
	dy Mucky Minera				essions (be present, unless disturbed or		
		(0.)	<u> </u>	.ол 2 ор.	,	(. 0)	ny arology maor i	problematic		
Dootsiotive	Laver /if abassus	I\.				ı		F		
	Layer (if observe	ea):					Hudria aail praaa	243 N		
	ravel fill						Hydric soil presei	nt? <u>N</u>		
Depth (inche	es): <u>8+</u>				•					
Remarks:										
Gravel fil	I was encounte	ered at	8 inches in the	soil pro	file.					
HYDROLO	OGY									
Wetland Hy	drology Indicato	rs:								
Primary India	cators (minimum	of one is	required; check	all that a	pply)		Secondary Inc	dicators (minimum of two required)		
Surface '	Water (A1)			Aquatic	Fauna (B	13)	Surface	Soil Cracks (B6)		
High Wa	ter Table (A2)			True Aq	uatic Plar	nts (B14)	Drainag	e Patterns (B10)		
Saturation	on (A3)			Hydroge	n Sulfide	Odor (C1	Dry-Sea	son Water Table (C2)		
	arks (B1)				l Rhizosp	heres on	9	Burrows (C8)		
	t Deposits (B2)			(C3)				on Visible on Aerial Imagery (C9)		
	osits (B3)					uced Iron	` '	or Stressed Plants (D1)		
	t or Crust (B4)				ron Redu	iction in I		phic Position (D2)		
	osits (B5) on Visible on Aeria	l Imagen	, (B7)	(C6)	ck Surfac	o (C7)	FAC-Ne	utral Test (D5)		
	Vegetated Conca				r Well Da					
	tained Leaves (B9			_		Remarks)			
Field Obser	` '	,			хрічії ії	rtomanto	, 			
Surface water		Yes	No	Χ	Depth (i	nches).				
Water table	•	Yes	No	$\frac{\lambda}{X}$	Depth (i	,	In	dicators of wetland		
Saturation p	•	Yes	No	X	Depth (i			ydrology present? N		
	pillary fringe)					,				
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
	pessino recorded data (stream gauge, monitoring well, actial priolos, previous inspections), il available.									
Remarks:										

Project/Site Crawford Site	City/County:	: Chicago/0	Cook Sampling Date: 5/31/17			
Applicant/Owner: SPACECO, Inc.	St	State: IL		Point: 6A		
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section, Townsh	ip, Range:	S: 35, T:39N, R:13E		
Landform (hillslope, terrace, etc.): depression	on L	Local relief (concave, convex, none):				
Slope (%): 0 Lat: 41.830182	Long	-87.7215	523 Datum:	NAD83		
Soil Map Unit Name Urban land		١W١	Classification:	None		
Are climatic/hydrologic conditions of the site typical for the	is time of the ye	ear? Y ((If no, explain in rem	narks)		
Are vegetation , soil , or hydrology	v signifi	icantly disturbed?	Are "nori	mal circumstances"		
Are vegetation , soil , or hydrology	natura	ally problematic?		present? Yes		
SUMMARY OF FINDINGS			(If needed, expla	in any answers in remarks.)		
Hydrophytic vegetation present? Y						
Hydric soil present? N	Is	the sampled are	ea within a wetland	l? N		
Indicators of wetland hydrology present? Y	f ye	es, optional wetla	nd site ID: Investi	gated Area 6		
Remarks: (Explain alternative procedures here or in a sep	narate report)					
Themains. (Explain alternative procedures here of in a sep	Darate report.)					
VECETATION Lieu esigntific normal of plants						
VEGETATION Use scientific names of plants.	bsolute Domi	nan Indicator	Dominance Tes	t Workshoot		
	bsolute Domi Cover t Spe		Number of Domin			
1		2.2.2	that are OBL, FAC	•		
2			Total Number of	``		
3			Species Acros	ss all Strata: 1 (B)		
4			Percent of Domin	•		
5			that are OBL, FAC	CW, or FAC: 100.00% (A/B)		
Conline /Charib etretime /Diet eine 45	0 = Total	Cover	Dravalance Inda	Warkshaat		
Sapling/Shrub stratum (Plot size: 15')			Prevalence Inde			
			OBL species	75 x 1 = 75		
3			FACW species	5 x 2 = 10		
4			FAC species	0 x 3 = 0		
5			FACU species	0 x 4 = 0		
	0 = Total	Cover	UPL species	$0 \times 5 = 0$		
Herb stratum (Plot size: 5')			Column totals	80 (A) 85 (B)		
1 Typha angustifolia	75 Y		Prevalence Index	x = B/A = 1.06		
2 Phragmites australis 3	5 N	FACW	Hydrophytic Vo	getation Indicators:		
				r hydrophytic vegetation		
5			X Dominance t			
6			X Prevalence i			
7			Morphogical	adaptations* (provide		
8				ata in Remarks or on a		
9			separate she			
10	OO Total	Cover		hydrophytic vegetation*		
Woody vine stratum (Plot size: 30')	80 = Total	Cover	(explain)			
1				c soil and wetland hydrology must be less disturbed or problematic		
			Hydrophytic			
	0 = Total	Cover	vegetation			
			present?	<u>Y</u>		
Remarks: (Include photo numbers here or on a separate	sheet)					

SOIL Sampling Point: 6A

Profile Description:	•	be to th	e depth				e indicat	or or confirm the	absence	of indicators.)
Depth (Inches) Color	Matrix	0/	Color		dox Feat		Loc**	Texture		Remarks
,	(moist)	%	Color	(moist)	<u>%</u>	Type*	LOC			
0+								Rubber liner		Soils could not be examined
					<u> </u>					
*Type: C = Concentr		- Depleti	on, RM =	= Reduce	ed Matrix	I, MS = N	/lasked S			PL = Pore Lining, M = Matrix
Hydric Soil Indica				0 -			(0.4)			natic Hydric Soils:
Histisol (A1)						ed Matrix	(S4)			x (A16) (LRR K, L, R)
Histic Epipe					dy Redo					(LRR K, L)
Black Histic	` '	`			•	trix (S6)	-1 (54)		-	r Peat (S3) (LRR K, L, R)
Hydrogen S	•				•	ky Minera ed Matrix	. ,		-	asses (F12) (LRR K, L, R)
Stratified La 2 cm Muck						ed Matrix atrix (F3)	. ,		xplain in re	Surface (TF12)
Depleted Be	. ,	Surface	(//11)			Surface		Other (e)	хріані ін ге	marks)
Thick Dark			; (A11)			ark Surfa	` '	*!	of budge	hutia vanatation and waltond
Sandy Muck	•					essions				hytic vegetation and weltand present, unless disturbed or
Garidy Much	ty minera	1 (31)			юх Бері	63310113	(10)	riyarology	•	oblematic
5									Ρ'	obiomatio
Restrictive Layer (in		ed):						111		N
Type: Rubber lin						=		Hydric soil	present?	N
Depth (inches): 0	+					-				
Remarks:							•			
Soils could not l	be exam	ined d	ue to ru	bber lin	er.					
HYDROLOGY										
Wetland Hydrology	Indicato	rs:								
Primary Indicators (r	ninimum	of one is	required	l; check	all that a	pply)		Secon	dary Indica	ators (minimum of two require
X Surface Water (A	(1)				Aquatic	Fauna (B	313)	;	Surface So	il Cracks (B6)
High Water Table	e (A2)					uatic Plar				atterns (B10)
X Saturation (A3)					Hydroge	n Sulfide	Odor (C1			n Water Table (C2)
Water Marks (B1	,					d Rhizosp	heres on		-	ırrows (C8)
Sediment Deposi					(C3)					Visible on Aerial Imagery (C9)
Drift Deposits (B3	,						uced Iron			Stressed Plants (D1)
Algal Mat or Crus						Iron Redu	action in T			c Position (D2)
Iron Deposits (B5	,	llmaaam	. (DZ)		(C6)	-l- Cf	·- (C7)	<u>X</u>	FAC-Neutra	al Test (D5)
Inundation Visible					-	ck Surfac	` '			
Sparsely Vegetat Water-Stained Le			ce (bo)			or Well Da	Remarks	١		
	, ,	'			Other (L	.хріант ін	Remaiks)		
Field Observations		Voo	~	No		Depth (i	inahaa):	. 6"		
Surface water preservater table present?		Yes Yes	X	No No	X	Depth (i	,	>6"	Indic	ators of wetland
Saturation present?	f	Yes	X	No		Depth (i	,	surface		rology present?
(includes capillary fri	inge)	163		. 140		- Deptil (i	1101163).	Surface	iiyai	
		m acua	n monito	المسام سماا	ooriol n	hoton n	rovious in	anactiona) if avai	ilahlar	
Describe recorded d	ata (Strea	ını gaug	e, monito	ning weii	, aenai p	motos, p	revious ir	ispections), ii avai	liable:	
Remarks:										

Project/Site Crawford Site	City/C	City/County: Chicago/C			Cook Sampling Date: 5/31/17			7
Applicant/Owner: SPACECO, Inc.	_	State:	IL		Sampling Point: 6B			
Investigator(s): T. Kehoe, T. Kessler and J. Cavaiani		Section, Township, Range: S: 35, T:39N, R:13E						
Landform (hillslope, terrace, etc.): terrace		Local relief (concave, convex, none): convex					onvex	
Slope (%): 0 Lat: 41.830182		Long:	-87.72152	23	Datum:	N	IAD83	
Soil Map Unit Name Urban land			NWI C	Classifica	tion:	No	one	
Are climatic/hydrologic conditions of the site typical for this	s time of	the year?	Y (II	f no, expl	ain in rema	arks)		
Are vegetation , soil , or hydrology		significantly	disturbed?		Are "norm	nal circumsta	ances"	
Are vegetation , soil , or hydrology		naturally pro	oblematic?			pre	esent? Y	es/
SUMMARY OF FINDINGS				(If need	ded, explair	n any answe	rs in rema	arks.)
Hydrophytic vegetation present? N								
Hydric soil present? N		Is the sa	ampled area	a within a	a wetland?	•	N	
Indicators of wetland hydrology present? N		f yes, op	tional wetlan	d site ID:	Investig	gated Area 6	<u> </u>	
Remarks: (Explain alternative procedures here or in a sepa	arate re	nort)						
Tromaino. (Explain alternative procedures here of in a sep-	arato ro	5011.)						
VECETATION Lies escentific names of plants								
VEGETATION Use scientific names of plants.	solute	Dominan	Indicator	Domin:	ance Test	Worksheet		
-		t Species	Staus		of Domina			
1					OBL, FACV		0	(A)
2				Total	Number of	Dominant		_` ′
3				Spe	cies Across	all Strata:	0	(B)
4			_		of Domina			
5				that are	OBL, FACV	N, or FAC: _	0.00%	_(A/B)
——————————————————————————————————————	0 =	Total Cover	· 	D1		. \4/		
Sapling/Shrub stratum (Plot size: 15')					ence index 5 Cover of:	(Workshee	t	
				OBL sp		0 x 1 =	0	
3			_	-	species	0 x 2 =		_
4			_	FAC sp	· —	0 x 3 =	0	_
5					species	0 x 4 =	0	_
	0 =	Total Cover		UPL sp		0 x 5 =	0	_
Herb stratum (Plot size: 5')				Column	n totals	0 (A)	0	_(B)
1				Prevale	ence Index	= B/A =		_
2					1 4 14			
3			_			etation Indi hydrophytic		. n
5						est is >50%	vegetatio	и
6			_			dex is ≤3.0*		
7			_	Mo	rohogical a	adaptations*	(provide	
8						ta in Remar		l
9				sep	parate shee	et)		
10						ydrophytic v	egetation	*
March in the control of (Platein and Only)	0 =	Total Cover		(ex	plain)			
Woody vine stratum (Plot size: 30')				*Indicat	•	soil and wetlar		
				Hve	drophytic	ess disturbed o	r problemati	IC
	0 =	Total Cover		-	getation			
	Ū			pre	esent?	N		
Remarks: (Include photo numbers here or on a separate s	sheet)							
Sample point exists on bare ground.								

SOIL Sampling Point: 6B

Profile Desc	cription: (Descri	be to th	e depth needed	to docu	ment the	indicat	or or confirm the abser	nce of indicators.)	
Depth <u>Matrix</u>			Red	dox Feat	<u>ures</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0+							Rubber mat		
*Typo: C C	`anaantration D	Donloti	on DM Doduce	d Matrix	MC M	lookad C	land Craina **I agat	ion: D. Doro Lining M. Motriy	
	Concentration, D =	Depleti	on, Rivi = Reduce	u Mainx	, IVIS = IV	iaskeu S		ion: PL = Pore Lining, M = Matrix	
_	il Indicators:		Con	dy Clay	ad Matrix	(04)		plematic Hydric Soils:	
	isol (A1)				ed Matrix	(34)	Dark Surface (S	edox (A16) (LRR K, L, R)	
	ic Epipedon (A2) ck Histic (A3)			dy Redo oped Ma				at or Peat (S3) (LRR K, L, R)	
	rogen Sulfide (A4	1)			uux (36) ky Minera	ol (E4)		e Masses (F12) (LRR K, L, R)	
	itified Layers (A5)			-	ed Matrix	. ,		ark Surface (TF12)	
	n Muck (A10)			oleted Ma		K (FZ)	Other (explain i	, ,	
	leted Below Dark	Surface			Surface	(E6)	Other (explain)	ii ieiliaiks)	
	ck Dark Surface (irk Surface	` '	*Indicators of but	drambutia varatatian and vialtand	
	dy Mucky Minera	,			essions (. ,		drophytic vegetation and weltand be present, unless disturbed or	
	dy Macky Millera	1 (01)		iox Depi	63310113 ((10)	Hydrology must	problematic	
								problematio	
	Layer (if observe	ed):							
	ubber mat						Hydric soil prese	nt? N	
Depth (inche	es): <u>0+</u>								
Remarks:									
A rubber	mat restricted	access	below the surf	ace of	the prof	file.			
					- 1				
HYDROLO	OGY								
Wetland Hy	drology Indicato	rs:							
Primary India	cators (minimum	of one is	required; check	all that a	(ylqq		Secondary Ir	dicators (minimum of two required)	
-	Water (A1)				Fauna (B	13)	·	e Soil Cracks (B6)	
	ter Table (A2)				uatic Plar			ge Patterns (B10)	
Saturation	` '		-			Odor (C1	1) — Dry-Se	ason Water Table (C2)	
	arks (B1)						·	h Burrows (C8)	
Sedimen	t Deposits (B2)			(C3)			Saturat	ion Visible on Aerial Imagery (C9)	
Drift Dep	osits (B3)			Presenc	e of Redu	uced Iron	(C4) Stunted	d or Stressed Plants (D1)	
Algal Ma	t or Crust (B4)			Recent I	ron Redu	iction in T	illed Soils Geomo	rphic Position (D2)	
	osits (B5)			(C6)			FAC-N	eutral Test (D5)	
	on Visible on Aeria				ck Surfac				
	Vegetated Conca		ce (B8)		r Well Da		,		
	tained Leaves (B9)		Other (E	xplain in	Remarks)		
Field Obser									
Surface water	-	Yes	No	X	Depth (i		.	Pastana at matter 1	
Water table		Yes	No	X	Depth (i	,		ndicators of wetland	
Saturation p		Yes	No	X	Depth (i	ncnes):		nydrology present? N	
(includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Describe red	corded data (strea	ım gauge	e, monitoring well	, aerial p	hotos, pi	revious ir	nspections), if available:		
Remarks:									
Tromants.									
Ī									